

Winter  
2005 2006

The Field

# Education's Impact: Stories from Chicago, Wyoming, China and Madagascar

## Scientists Dig Favorite Field



# Education: Here and Around the Globe



JOHN WEINSTEIN/GIBBS 113 6

Even long-time Field Museum members sometimes feel overwhelmed by the wealth of information presented in the Museum's many exhibitions. Next time you visit, consider taking advantage of the more than 100 Field Museum docents who await you. These volunteers are dedicated to enriching your visit and are trained to help you make the most of your time by pointing out exhibition highlights and answering questions. Our docent-led tours are a great introduction to the Museum, or a fun way to rediscover favorite exhibitions in a structured way.

The variety of tours includes: Museum Highlights—a look at some of our most popular exhibitions (weekdays 11am and 2pm, weekends 11am); *Inside Ancient Egypt*—a tour through our permanent exhibition covering 4,000 years of fascinating history (weekdays 1pm, weekends at noon); *Pawnee Earth Lodge*—a chance to experience Native American life on the plains (weekdays 1pm program, weekends 10am to 4:30pm); and *Plants of the World*—a view of one of the most extensive plant model collections

In addition, we have docents stationed on the floor to explain the latest scientific discoveries about Sue and discuss the intriguing history featured in the temporary exhibitions, *Dinosaur Dynasty* and *Pompeii*. (These docents are available weekdays 10am to 2pm, weekends 10am to 4:30pm.)

Our docent-led tours are just one way The Field Museum reaches the public through education. Articles in this issue illustrate the scope of our role as educators—locally, nationally and internationally we serve teachers, students, the public and the scientific community. We are making a lasting impact through a wide variety of programs—from training Chicago area teachers how to use Museum resources, to helping Chinese archaeologists become skilled in a more cost and time effective method of surveying ancient sites. Our cover story tells about the Stones and Bones program that takes high school and undergraduate college students to Wyoming to dig for fossils. Our calendar section features many educational activities ranging from celebrations of African American culture, to discussions by National Geographic explorers.

Beth Spencer is among the many Field Museum docents available to enhance your visit.



NORA GRIFFIN

in the world where you'll also learn about botany research at The Field Museum (tour times vary, please inquire at the Museum's information desk in Stanley Field Hall where all of our tours begin.)

Steven Goodman, PhD.



MARK WILHALM/GN0611 19D

We also feature an article co-authored by Steven Goodman, PhD, Field Museum senior field biologist in

Madagascar. Dr. Goodman and his colleagues are helping Malagasy conservation biologists emerge from the shadows of their mentors to play a larger role in studying and preserving their country's unique biodiversity. In September, the John D. and Catherine T. MacArthur Foundation announced that it had chosen Dr. Goodman to be a MacArthur Fellow. He will receive \$500,000 in "no strings attached" support from the foundation over the next five years. MacArthur Fellows are selected for their creativity, originality and potential. We congratulate Steve on this well deserved recognition!

*John W. McCarter*

John W. McCarter, Jr.  
President and CEO

## What do you think about In the Field?

For general membership inquiries, including address changes, call 866.312.2781. For questions about the magazine *In the Field*, call 312.665.7115, email [noshea@fmnh.org](mailto:noshea@fmnh.org), or write Nancy O'Shea, Editor, The Field Museum, 1400 South Lake Shore Drive, Chicago, IL 60605-2496.

# INTHEFIELD

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**Cover:** Theodora Gibbs-Plessl wields a sledgehammer as she searches for fossils during the Stones and Bones program in Wyoming. Top inset: John Katahara carries the Stones and Bones flag. Bottom inset: Lance Grande, PhD, teaches the program. Photos by John Weinstein.

The Field Museum salutes the people of Chicago for their long-standing, generous support of the Museum through the Chicago Park District.

The **Field**  
Museum

1400 South Lake Shore Drive  
Chicago, IL 60605-2496  
312.922.9410  
[www.fieldmuseum.org](http://www.fieldmuseum.org)



JOHN WEINSTEIN/90769 130D



ACHILLE RASELIMANANA



DIANE ALEXANDER WHITE

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The Stones and Bones program takes advanced placement high school and undergraduate college students to Wyoming to dig for fossils with Field Museum paleontologists.

*Top: Stones and Bones students Irene Ginakakis and Madison Kramer.*

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A Field Museum scientist has been instrumental in developing a program called RAP-Gasy, to help Madagascar's new wave of conservation biologists.

*Middle: Marie Jeanne Raherilalao, a RAP-Gasy member, curates the bird collection at Madagascar's Université d'Antananarivo.*

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When Museum scientists venture into the field, the equipment they pack is vital to the success of their work. Read about the things they won't leave home without.

*Bottom: Carl W. Dick, PhD, peers through the net he uses to capture bats.*

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In the aftermath of Hurricane Katrina and other devastating natural disasters, an environmentalist and an anthropologist from The Field Museum give their thoughts.

## Museum Campus Neighbors

**Adler Planetarium** *Lost Spacecraft: Liberty Bell 7 Recovered*, a special exhibition at the Adler Planetarium is on display through Jan. 8, 2006. See the fully-restored Liberty Bell 7 space capsule, learn how astronauts trained for the first NASA missions, experience a rocket launch sequence and much more. Don't miss the Adler's Star of Wonder sky show this holiday season. This enduring holiday show takes visitors on a magical journey back in time to discover the remarkable story behind the "Star of Bethlehem." Now showing in the historic Sky Theater through Jan. 1, 2006. For more information, visit [www.adler-planetarium.org](http://www.adler-planetarium.org) or call 312.922.STAR.

**Shedd Aquarium** Take advantage of Shedd Aquarium's discount days, Dec. 10–14, when general admission to the aquarium is free (fees do apply to Oceanarium and Wild Reef admission). Then, Shedd turns into Neptune's Holiday Kingdom, Dec. 16 through Jan. 2, 2006. Kids will find an undersea wonderland with special programs, activities and crafts. Best of all, they can visit with King Neptune himself and pledge to take some action every day to protect Neptune's realm and the rest of nature. Holiday events are free with general admission. For more information, visit [www.sheddaquarium.org](http://www.sheddaquarium.org) or call 312.939.2438.

# Stones and Bones: Students Learn While Working as Paleontologists

*Lance Grande, PhD, Vice President, Head of Collections and Research, and Curator, Department of Geology, The Field Museum*

*Photos by John Weinstein*

For each of the past two years, I have enjoyed teaching a summer field course to a small group of advanced placement high school and undergraduate college students. The four-week course, called *Stones and Bones*, is run through the University of Chicago and The Field Museum and covers paleontological theory, method and practice. *Stones and Bones* begins at The Field Museum where the students spend a week learning about fossil collections and the type of research conducted here. The second two weeks are spent in the mountain desert near Kemmerer, Wyoming—one of the world's most spectacular fossil sites—where the students participate in hands-on fieldwork. Then it's back to The Field Museum, where they finish the program focusing on what is done with the collected fossils, including preparation, study and analysis of the material and incorporation of the specimens into the permanent Museum collection.

## A Solid, Effective Team Working in Spectacular Surroundings

After a week of intensive class work in Chicago, the students are well acquainted with each other and the class merges with my regular field crew of 12 to 16 Museum staff and volunteers. By the time we travel to Wyoming and start living and working together 24/7, we are a solid, effective team that works hard, forms close bonds and shares unforgettable experiences. Our efforts are well coordinated as we tear through slabs of solid limestone. Using picks, hammers, shovels and finally brooms, we uncover fossils, carefully remove them with special saws, and then pack them up for shipping back



*The 2005 Museum field crew in Wyoming including the *Stones and Bones* class, Museum staff and volunteers, Dr. Grande and his daughter Lauren.*

to Chicago. The fieldwork portion of the course is much more than simply a training exercise. It's a real paleontological excavation in an incredible mother lode of beautifully preserved 50-million-year-old fossils.

We live at the dig site for two weeks, camping together just steps away from the fossil quarry in one of the most spectacular desert regions of the western United States. In the evening, smaller groups handle the various duties that go along with camping 10 miles from the nearest town.

The students learn a lot about each other, but also about themselves as they take turns serving as cooks, dishwashers, and doing all the other jobs that transform our group into a temporary community. And what a place for our community! Herds of pronghorn antelope graze in the valley below, and golden eagles, bald eagles, hawks and falcons soar above. At night we hear coyotes howling in the valley and occasionally a mountain lion screams in the distance. Daytime temperatures may reach the high 80s, but after dark it cools considerably—usually down into the 30s—making the campfire a natural gathering place for the group to discuss the day's events and plan for tomorrow.

## Green River Formation Yields Beautifully Preserved Fossils

When we start working in the quarry, we find hundreds of fossils each day. Because of a chain of highly unusual geological conditions, an entire 50-million-year-old lake community of extinct plants and animals is extremely well preserved in the high mountain desert. We find everything from tiny fossilized bacteria and pollen, to beautifully preserved 13-foot crocodiles, as well as palm fronds, birds, bats, three-toed horses, primates, fishes, insects, leaves and flowers, turtles, lizards, and many other fossils. Most of the fishes and other vertebrate animals we find are complete skeletons. We see stomach contents in some of the fossils and learn what they were eating, we see developing embryos



### Additional Information About the Program

The complete name of the course is *Stones and Bones: A Course in Paleontological Research Methods and Field Work*. It is offered through the Graham School of General Studies at the University of Chicago. The course is given in late June and early July, and Dr. Grande will offer it again next summer. The prerequisite is some coursework in general science, particularly in biology, zoology, or geology. Enrollment is limited to 16 students. For more information on the Stones and Bones program and the University of Chicago's Summer Programs for High School Students, call 773.834.3792 or email [slopez@uchicago.edu](mailto:slopez@uchicago.edu).



GN00601 006RL

in some specimens (an indication of live birth), and we find size series of many species that show how the animals grew. It is as though an entire tropical community has been frozen in time. We learn an enormous amount about the evolution and history of the North American biota from this locality, because the site represents a virtual window looking 50 million years into the past.

### Our Dedication to Education and Collections-Based Research

The Stones and Bones program is one excellent example of the many collaborative educational programs between The Field Museum and the University of Chicago. Museum curators teach many graduate and undergraduate college courses at the university, advise graduate students, and

'...students obtain a special hands-on experience early in their educational development. As a result, we hope some of them will be attracted to the sciences as a career.'

attract a number of exceptional graduate students to U of C programs. In return, the university supports Field Museum students and grants graduate degrees to those students.

In the case of the Stones and Bones program, students obtain a special hands-on experience early in their educational development. As a result, we hope some of them will be attracted to the sciences as a career. The Field Museum benefits from having the students expand its field crew significantly. The fossils collected in the Stone and Bones program are important for the Museum's research, collections and exhibitions. The specimens have high research value and will be studied by me and by scientists from all over the world. When the Museum opens its new *Evolving Planet* exhibition next March, a section of the exhibition devoted to the Green River Formation will feature some of the fossils found by Stones and Bones students.

Stones and Bones is a collaboration where everybody wins—the students, the University of Chicago, The Field Museum, and the scientists who will study the collected material for decades and even centuries to come. **ITF**

*Above: Field site for the 2005 expedition to Lewis Ranch in southwestern Wyoming, one of the world's most productive fossil sites.*

*Field Museum geology volunteer Mike Eklund watches student Andrew Spitzer pry up a layer of fossil-rich rock.*



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# Field Educator Makes Museum a Learning Tool for Teachers

A Conversation with Elizabeth Babcock

Katherine V. Huntley, Writer

Photos by Diane Alexander White

As Director of Teacher and Student Programs in The Field Museum's Education Department, Elizabeth Babcock, PhD, helps the Museum fulfill its purpose of educating the public. In *the Field* spoke with Dr. Babcock about her experiences and the work of her department.

**ITF:** What is the main goal of your job?

**Dr. Babcock:** To make the Museum accessible to Chicago area teachers and students. Teachers sometimes don't realize the wealth of resources here and don't know The Field Museum continues to offer new things all the time. We train the teachers to use the Museum. We've also tried to make everything affordable. In September 2004, we made all of the temporary exhibitions free for all Chicago area schools.

**ITF:** What experiences have made the biggest impression on you?

**Dr. Babcock:** The most memorable experiences are the ones in which I see the fruit of our labor in educating teachers and students about how to use the Museum in a meaningful way. In my role, I also teach classes, and it's the contact with the teachers

specimens. They're going to have a very different sense of what ancient Egypt was all about when they come here and see the artifacts, as opposed to just reading about it in a book or on the internet.

**ITF:** Why do you feel it's important to train educators?

**Dr. Babcock:** I think a lot of people assume that when a teacher comes to the Museum it's automatically easy to use the Museum in an effective way, but we know that's not the case. Over the course of a teacher's 20 to 30-year career, he or she is going to work with thousands of students. If a teacher is well trained on how to use the Museum's resources then it's more likely the students are going to have meaningful experiences.

**ITF:** How do you help students and teachers make the most of field trips?

**Dr. Babcock:** One way is through the free educator guides. These guides help them think through how they can build the field trip into their classroom learning. We also train teachers on our focused field trip framework that outlines different ways of interacting with our exhibitions. That way, teachers and students become better Museum users. We also have a fantastic docent corps of volunteers who likes working with the school groups and regularly take them on guided exhibition tours.

**ITF:** When students and teachers leave, how do you hope they view the Museum?

**Dr. Babcock:** I had a really neat experience the other day. A group of third and fifth grade students came with their parents and teachers on a family field trip. We did a dinosaur-related set of activities, when they left, we asked them for evaluations. They said things like, "I didn't know that the Museum was such an interesting place."... "I hadn't been here in 20 years, I didn't know that they had these new resources." We love comments like that. **ITF**

Center: Elizabeth Babcock, PhD.

Teacher Anne Hoverson (left) and Principal Lorelei Bobroff, from St. Paul of the Cross School in Park Ridge, talk with Dr. Babcock in the Museum's Pawnee Earth Lodge.



'If a teacher is well trained on how to use the Museum's resources then it's more likely the students are going to have meaningful experiences.'

and students that keeps me—and all the folks in the education department—rejuvenated everyday.

**ITF:** When you're designing programs, what aspects do you consider in order to fully engage students?

**Dr. Babcock:** It's important to make sure the students have some sort of interaction with real artifacts and

Citigroup Foundation provides lead corporate support for professional development programs for teachers at The Field Museum.

# Helping Malagasy Scientists Study and Conserve Their Island's Unique Habitats

Steven Goodman, PhD, Senior Field Biologist, The Field Museum

Achille Raselimanana, PhD, Biodiversity Program Officer, WWF-Madagascar

The island of Madagascar has levels of endemic plants and animals virtually unparalleled anywhere else on Earth and the country faces considerable pressure on remaining natural forest habitats. It is impossible to protect what is unknown and the more we learn about the organisms of the island, the greater insight we have into conservation needs. The availability of trained human resources is key to conservation efforts in Madagascar. Malagasy scientists must have the means to conduct research and the experience to place scientific data in a context that can enhance conservation. It is simply imperative that Malagasy scientists play a key role in the progress of programs associated with their island's biodiversity and natural environments.

In the early 1990s, the World Wildlife Fund and World Wide Fund for Nature (WWF)-Madagascar office began the Ecology Training Program (ETP). It strives to furnish logistical, financial and supervisory support to promising young Malagasy graduate students working in conservation biology and in collaboration with Malagasy universities. Field Museum Senior Field Biologist Steven Goodman, PhD, (article co-author) began coordinating this program close to its conception and continues in this capacity. In 1996, herpetologist Achille Raselimanana, PhD, (article co-author) joined WWF-Madagascar as the biodiversity program officer and as coordinator of ETP. This program has advanced knowledge of the island's unique biological inventories and hundreds of Malagasy students and researchers have visited nearly 200 different sites for multidisciplinary biological inventories. About 50 students have earned higher degrees at Malagasy universities associated with ETP and slightly more have visited The Field Museum to conduct research. Thanks in part to ETP, a body of Malagasy biologists has emerged with the needed skills to make a difference in advancing conservation programs on their island.

However, a couple of years ago, a problem involving the advancement of Malagasy biologists became apparent. While the new wave of these scientists obtained important governmental and nongovernmental jobs, thus having a profound impact on the conservation programs of their unique island, on the research side, many remained in the shadows of their mentors.

In order for these conservation biologists to forge their own visions and create their own professional identities, something had to be done quickly. With a three-year grant given by the John D. and Catherine T. MacArthur Foundation and administered by The Field Museum, this problem has been partially addressed with a project known

as RAP-Gasy—a team of Malagasy biologists that conduct rapid assessments of poorly known forested areas on the island and helps foster other conservation biologists from that nation.

The RAP-Gasy team finished the first year of the project this past Southern Hemisphere summer. They surveyed eight different sites in a variety of regions of the island. Each year they intend to spend about five months in the field, two or three months working at universities conducting research and giving conservation biology courses, and the balance of the year pursuing research projects in their fields of interest, particularly those with foreign collaborators, and acting as mentors for the next generation of Malagasy biologists.

For example, mammalogist Voahangy Soarimalala is conducting a systematic revision of a Malagasy rodent genus. She spent the past two summers at The Field Museum working with specimens and in the molecular laboratory of Sharon Jansa, PhD, at the Bell Museum at the University of Minnesota. Dr. Raselimanana just finished a three-year postdoctoral position studying the molecular phylogeny of a group of Malagasy lizards at the Yale University laboratory of Anne Yoder, PhD.

As you read this, the RAP-Gasy team is in the field for their second season together. This is the best time of year to conduct research in Madagascar because plants are flowering and fruiting and animals are notably active. Who knows what wonders the scientists will find? But that is a subject for a future article. **ITF**

'... many [Malagasy conservation biologists] remained in the shadows of their mentors. In order for [them] to forge their own visions... something had to be done quickly.'



Achille Raselimanana, PhD, (background, seated at makeshift field lab) and Marie Jeanne Raherilalao (seated in foreground) are two members of the RAP-Gasy team.

ACHILLE RASELIMANANA

WWF CONSERVATION INTERNATIONAL

## Field Museum Spearheads Regional Collaboration of Environmental Educators

*Submitted by The Field Museum Education Department*

Each year, The Field Museum's Soil Adventure Mobile (SAM) educators introduce about 25,000 Chicago area children and adults to the "world beneath their feet" through innovative hands-on activities about soil and biodiversity. SAM audiences learn about biology and conservation by participating in activities such as touching live millipedes and worms, creating a variety of soil mixtures, and identifying typical backyard soil critters. Recently, the SAM program expanded its outreach to include the states of Indiana, Minnesota, Wisconsin, Iowa and Missouri.



TAMMY HAGGERTY-JONES

*SAM educator Johanna Thompson shares the basics of soil science with a student.*

The traveling SAM program is only one part of a new Field Museum regional alliance focused on the permanent exhibition, *Underground Adventure*. Called the Environmental Education Initiative for *Underground Adventure* (EEIUA), this collaboration brings together science institutions in the Midwest to share educational techniques and programs on soil science, biodiversity and conservation. As Victor Olapojoye, the Field's administrator of outreach programs and coordinator of EEIUA, explains, "Sharing best practices with other science education institutions allows us to magnify the impact of our respective education programs and resources."

EEIUA partners include The Field Museum; Blank Park Zoo in Des Moines; Missouri Botanical Garden in St. Louis; Indiana Dunes National Lakeshore; University of Wisconsin-Madison Arboretum; and Southwest Research and Outreach Center in Lamberton, Minnesota. Partners have access to the full range of *Underground Adventure*

educational resources, including the SAM program; the redesigned *Underground Adventure* website ([www.fieldmuseum.org/underground-adventure](http://www.fieldmuseum.org/underground-adventure)); the teacher resource, *Uncarthing Soil Secrets: An Educator Guide to Underground Adventure*; and the *Underground Adventure* classroom poster available through the Field Museum's Harris Loan Center (312.665.7500 or [www.fieldmuseum.org/harrisloan](http://www.fieldmuseum.org/harrisloan)).

The Field Museum formally launched the alliance with a two-day workshop in November that focused on environmental education resources for teachers. Thirty representatives from partner organizations and Field Museum staff convened to share resources and training tips for environmental science teachers. During the workshop, participants assessed each institution's environmental education programs, shared common challenges and developed regional and local strategies for program improvement. As the first of two planned workshops, the conference set the stage for what

**'Sharing best practices with other science education institutions allows us to magnify the impact of our respective education programs and resources.'**

promises to be a productive collaboration.

To learn more about the EEIUA partner institutions and the initiative, please check out the resources section of the *Underground Adventure* website or call 312.665.7536. In the meantime, keep your eyes peeled for the Soil Adventure Mobile at our partner locations! **ITF**

We thank the members of the EEIUA advisory committee. Lead sponsor: Monsanto. Additional support provided by the Albert Pick Jr. Fund.



# YOUR TO THE

Calendar of Events for Winter 2005–2006 December–February

Inside: Exhibitions Festivals Family Programs Adult Programs



## Programs at a Glance

*Details inside!*

### Family Programs

Family Overnight 12/17

Peaceable Kingdom 12/27

Two of Us Workshops 1/3–1/24 & 2/7–2/28

Martin Luther King Performances 1/13–1/16

Frederick Douglass Performances 2/11–13

African American Literature Lecture 2/12

### Adult Programs

Ghosts of Vesuvius Lecture 12/7

Handmade Pasta Workshop 1/25

Betty DeRamus Lecture 2/11

African Ancestry Lecture 2/15

Cultural Connections Programs 2/18 & 3/18

Migration Lecture 2/28

Restoring Stabiae Lecture 3/4

### Evolving Planet Preview

Dino Discovery Days 3/11–13

Create a Play in One Day! 3/11

Evolving Science Lecture 3/11

### National Geographic Live! Series

Africa By Air 2/21

Exploring Bhutan 3/14

Chasing the Tornado 3/28

Three Among the Wolves 4/25

In Search of King Tut 5/23

## New Exhibition

Through March 26, 2006



# POMPEII

## STORIES FROM AN ERUPTION

Two thousand years ago a vibrant society disappeared beneath the ashes of Vesuvius. Now you can uncover its buried treasures—and its human drama—at The Field Museum.

The exhibition was organized by the Ministero per i Beni e le Attività Culturali, Soprintendenza archeologica di Pompei, Soprintendenza per i Beni Archeologici delle province di Napoli e Caserta, Regione Campania.

Presented by Harris N.A.

## Featured Lecture

### Ghosts of Vesuvius

*Dr. Charles Pellegrino, Author*

Uncover the strange connections between major disasters such as the eruption of Vesuvius and the collapse of the Twin Towers on September 11. As one of the world's only experts on downblast and surge physics, Pellegrino will explore the remnants of an extraordinarily advanced civilization, then dissect the effects of Vesuvius' eruption, in hopes of saving lives around volcanic hot zones.

Wednesday, Dec. 7, 6pm

\$16, students/educators \$14, members \$12



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FRANCESCO MATTEO

The Field  
Museum

General Museum Information: 312.922.9410

Family and Adult Program Tickets and Information: 312.665.7400

# Discover the rich history of the African-American migration experience

*February 2006*

Be inspired by speakers and performers that use their work to explore the extraordinary stories and legacies of the Underground Railroad. Lectures, first-person interpretations, and more will uncover the rich heritage of Africans in America, from slavery to today.

## Gallery Programs

### A Portrait of Frederick Douglass

Virtually travel back in time to the Columbian Exposition of 1893, where Frederick Douglass delivered his inspiring speeches about freedom and equality in the U.S. and abroad. Celebrated Chicago actor and singer Kevin McElvaine will portray Douglass' famous orations, backed by moving performances by the Apostolic Church Choir of Chicago.

*Saturday, Feb. 11–Monday, Feb. 13, 2pm*  
*Free with Museum admission*

## Adult Lectures

### Forbidden Fruit: Love Stories from the Underground Railroad

*Betty DeRamus, author*

Venture back into a dangerous world where freedom was scarce and romance was off-limits. DeRamus recounts astonishing tales of slaves who found love in the most unusual places, documenting stories that have remained hidden for more than a century.

*Saturday, Feb. 11, 2pm*  
*Free with Museum admission*



## FORBIDDEN FRUIT

LOVE STORIES FROM THE  
UNDERGROUND RAILROAD



BETTY DE RAMUS



COURTESY OF BETTY DERAMUS

## Frederick Douglass and African-American Literature

William Cook, Dartmouth College



COURTESY OF WILLIAM COOK

Gain insight into the life and works of Frederick Douglass through an intimate look at his contribution to African-American literature. Dr. Cook will trace the construction of African-American oratory and preaching and show how they have shaped literature and discourse.

Sunday, Feb. 12, 12:30pm  
Free with Museum admission

## African Ancestry, Inc.

Dr. Rick Kittles, Scientific Director, African Ancestry, Inc.

Learn more about Dr. Kittles' well known work studying the genetics of hereditary prostate cancer among African-Americans. Dr. Kittles traces African-American ancestry through unique genealogy research, studies of population history, and disease associations.

Saturday, Feb. 15, 2pm  
Free with Museum admission



KIMBERLY MAZANEK/GN90534.21D

## Evening Lecture/ Performance

### In Motion: The African-American Migration Experience

Opening Performance: The John Work Chorus

Keynote Presentation: Sylviane A. Diouf, author

Learn more about this author's new interpretation of African-American migration history, which includes the self-motivated activities of peoples of African descent trying to remake themselves and their worlds. See how these industrious peoples used survival skills, efficient networks, and their dynamic culture to thrive and spread in the new settlements of the Americas.

Tuesday, Feb. 28, 7pm (includes book signing)

\$18, members \$15, students/educators \$12

### A Spiritual Journey Percussion Ensemble

At the Harold Washington Cultural Center-Bronzeville

Expand your musical horizons with this creative ensemble that uses traditional African instruments to tell stories and inspire people. Family audiences will hear songs, see basic choreography, and learn about the power of music.

Saturday, Feb. 18, 2pm

Free to the public

For more information, visit [www.haroldwashingtonculturalcenter.com](http://www.haroldwashingtonculturalcenter.com)



## More dino fun

## Dinosaur Dynasty: Discoveries from China

Through April 23, 2006

Meet dinosaurs you've never seen before—all the way from China! This exhibition features authentic fossils and life-size casts of 21 dinosaur skeletons from one of the world's hottest spots for dinosaur research.

This exhibition was produced by DinoDon, Inc., in cooperation with Beringia Ltd. and the Inner Mongolian Museum.



CHERYL BARDOE

## Family Overnight

### Dozin' With The Dinos

Sue the T. rex is having a sleepover! Join us for a night of family workshops, tours and performances. Explore ancient Egypt by flashlight, prowl an African savannah with man-eating lions and take a stroll through the Royal Palace in Bamun, Africa. Then spread your sleeping bag amidst some of our most popular exhibitions. The event includes an evening snack and breakfast.

*Saturday, Dec. 17, and Fridays, Jan. 6 and 20, and Feb. 10 and 24*  
5:45pm in the evening until  
9am the following day  
\$47, members \$40



## Family Performances

### Peaceable Kingdom

Celebrate the holidays with cultural traditions from around the globe. The three-day festivities include performances by choral groups, bands, and jazz ensembles that reflect the ethnic diversity of Chicago.



*Hypnotic Brass Ensemble: Monday, Dec. 26, 2pm*

*Tribus Futuras: Tuesday, Dec. 27, 2pm*

*Edgar Gabriel's String Groove: Wednesday, Dec. 28, 2pm*  
Free with Museum admission

CATHRYN C. MONTOYA/GN90521 9C

## Adult Class

### Italy's Hand-made Traditions

*Slow Food Chicago*

Enjoy an evening of pasta tasting and demonstrations by Chef Theo Gilbert, whose Pasta Adagio Restaurant and Market creates handcrafted pasta and sauces from organic flour, farm-raised eggs, and other local ingredients. You'll learn more about the worldwide Slow Food movement, founded in Italy to promote the pleasures of the table and food produced using sustainable farming. The tasting includes wine.

*Wednesday, Jan. 25, 6:30–9pm*

*\$60, members \$50*

*Please note: Space is limited, and class location is TBD.*



## Free Lecture

### Luxury and Power in the Seaside Villas of Stabiae

*Dr. Thomas Noble Howe,  
Coordinator General of the Restoring  
Ancient Stabiae Foundation*

Experience the wealth and ostentation of the spectacular seaside resorts near Pompeii. You'll see how these luxurious homes served as centers for power in the hot summers, as senators and businessmen entertained guests with exclusive parties. You'll also learn about the innovative project of the Restoring Ancient Stabiae Foundation, which is preserving, excavating and returning the villas to their former grandeur.

*Saturday, March 4, 2pm*

*Free with Museum admission*

*For more information on Stabiae and the Restoring Ancient Stabiae project, visit their website at [www.stabiae.org](http://www.stabiae.org).*



COURTESY RESTORING ANCIENT STABIAE

Below is a calendar of current and upcoming temporary exhibitions. Some dates may change. Visit our website at [www.fieldmuseum.org](http://www.fieldmuseum.org) or call 312.922.9410 as the date of your visit nears.

### Auschwitz Album: The Story of a Transport

Through Jan. 27, June 4, 2006

### Design Innovations in Manufactured Housing

Through January 16, 2006

## King Performer Keeps Dream Alive

Celebrate the birthday of Martin Luther King Jr. with a moving portrayal of his speeches on nonviolence, faith, love, and equality. Chicago actor and singer Kevin McIlvaine, who travels the country portraying the slain civil rights leader, is known for his ability to enthrall audiences as if King himself were speaking. This is the first program in a series commemorating the 40th anniversary of the Chicago Freedom Movement.

Friday, Jan. 13–Monday, Jan. 16, 2pm

Free with Museum admission

For more information, visit [www.cfm40.org](http://www.cfm40.org).

Sponsored by Ariel Mutual Funds.



## Family Workshops

### Two of Us: African Culture and Mammals

Join us in this four-week excursion through the wonders of The Field Museum! You and your little one will travel the Museum's exhibition halls, sing songs, hear stories, touch objects, make art projects, and enjoy snacks while exploring natural history themes. Choose either a focus on African culture, from Ancient Egypt to modern day Bamun, or an exploration of mammals of the world.

*African Culture: Tuesdays, Jan. 3–24, 10–11am*

*Mammals: Tuesdays, Feb. 7–28, 10–11am*

*For families with children ages 3–5.*

*\$32, members \$27*

*Note: For every child with paid attendance, one parent or chaperone attends for free.*



JOHN WEINSTEIN/GN90771.030D

## Cultural Connections

### The Language of Looks

Experience cultural diversity in your hometown!

This year, through the Cultural Connections program, local ethnic museums and cultural centers are presenting joint events that explore the messages of identity that we send and receive through appearance.

Join Field Museum staff and Cultural Connections partners for their early spring collaborations:



JOHN WEINSTEIN/GN90499.18/D

### Arab American Action Network and Swahili Institute of Chicago

*Saturday, Feb. 18*

### Indo-American Center and Chicago Japanese American Historical Society

*Saturday, March 18*

For more information, including the Teacher Course for Lane/CPDU credit, see [www.fieldmuseum.org/ccuc/cultural.htm](http://www.fieldmuseum.org/ccuc/cultural.htm)

Cultural Connections has received generous support from The Joyce Foundation, Kraft Foods, Polk Bros. Foundation, Chicago Public Schools' Office of Language and Cultural Education, Richard H. Driehaus Foundation, and Charles and M.R. Shapiro Foundation.

### Jungles

Through March 5, 2006

### Pompeii: Stories from an Eruption

Through March 26, 2006



# Ready for the grand opening of Evolving Planet with Dinosaur Discovery Days



On March 10, 2006, our new exhibition about the history of life on Earth—including an expanded hall of dinosaurs—will finally be open! Help us celebrate and take part in a performance, see rarely viewed specimens from the Museum's collections, handle real fossils, and more.

## Gallery Programs

### Interpretive Stations

Discover the geological hot spots of the Americas by piecing together our Mega Maps that locate and identify the best places to find and excavate fossil evidence of prehistoric life. Later, play our Extinction Game and learn why and how certain species have survived Earth's mass extinctions—while others have been lost forever.

*Saturday and Sunday, March 11 and 12, 10am–noon and 1–3pm  
Free with Museum admission*

### Special Artists at the Field

Examine the enthralling work of *Evolving Planet* illustrator Karen Carr, and learn what it takes to depict scenes of life on Earth millions of years ago. Come early, visit with the artist, and sign up for a special guided tour of the exhibition with Ms. Carr (limited to 45 participants).

*Saturday, March 11, 10am–noon, Tour: 1pm  
Free with Museum admission*



FM/MICHAEL BRADICICH

## Children's Workshop

### Create a Play in One Day!

*Foundation Theatre Group*

Put your little one in the director's chair! Children ages 5–11 will write a short dinosaur play under the tutelage of professional actors, cast it with their new friends from the workshop, and perform at the Museum that same day.

*Saturday, March 11, Rehearsal: 10am–2pm; Performance: 2:30pm  
\$16, members \$12*

## Special Women's History Month lecture

### Can 200 Million-Year-Old Leaves Predict the Future for Plant Biodiversity?

*Dr. Jenny McElwain, FM Dept. of Geology*

Take a virtual expedition to chilly Greenland to see how fossil plants are helping scientists untangle the mysteries of ancient global warming trends—and helping shape predictions about the effects of future global warming on Earth's biodiversity and ecology.

*Saturday, March 11, 1:30pm*



FM/HALE POPE

The Elizabeth Morse Genius Charitable Trust is the generous sponsor of the Genius Hall of Dinosaurs.

*Evolving Planet* is made possible, in part, with support from the Illinois Department of Commerce and Economic Opportunity, the U.S. Department of Housing and Urban Development, the U.S. Department of Energy and the U.S. Department of Education.

**aur Dynasty: Discoveries from China**

April 23, 2006

**Transforming Tradition: Pottery from Mata Ortiz**

Through May 31, 2006



**NATIONAL  
GEOGRAPHIC**

**LIVE!**

Travel across lush Africa, the frigid Canadian north, even the Midwest's tornado alley, in our fifth year of National Geographic Live! presentations. Get your tickets early to see the best photographers, explorers, and conservationists bring their dramatic adventures to The Field Museum.



### Wings Over Africa: Tracing the Human Footprint

*J. Michael Fay, Explorer and Conservationist*

Witness the effects of human development on Africa's great biodiversity through magnificent aerial photography. You'll see the great lengths—including a 60,000-mile "megaflyover" of the continent—to which Fay has gone to heighten awareness about Africa's growing conservation needs.

*Tuesday, Feb. 21, 7:30pm*

### Exploring Bhutan

*Michael Hawley, Computer Scientist and Explorer*

Jump into the mind of one of the world's most visionary thinkers, who is changing the way we think about sharing and utilizing information. A real renaissance man, Hawley will take you on a visual odyssey across Bhutan with vibrant photographs from his recently published book on the Himalayan kingdom.

*Tuesday, March 14, 7:30pm*



COURTESY MICHAEL HAWLEY

### Chasing the Tornado

*Tim Samaras, Severe-Storm Researcher*

Follow the winding path of some of Earth's most destructive natural phenomena. You'll hear some of Samaras' most harrowing stories of storm chasing in tornado country, and how he is carefully engineering probes that will teach us more about the dynamics of twisters.

*Tuesday, March 28, 7:30pm*



### Three Among the Wolves

*Helen Thayer, Explorer*

Walk in the way of the wolf with Helen Thayer and Charlie, her half-dog, half-wolf companion. Thayer will recount the extraordinary education she and her husband received living among packs of wolves in the Canadian Yukon and Arctic, using Charlie as an interpreter between wolf and man.



PHOTOGRAPH BY HELEN THAYER

*Tuesday, April 25, 7:30pm*

### In Search of King Tut

*Zahi Hawass, Egyptologist*

Get a first-hand look at the CT scans and other investigations being performed on Tutankhamun and other ancient mummies of Egypt. Dr. Hawass is leading an international team of scientists in this provocative look at one of antiquity's most enduring mysteries.

*Tuesday, May 23, 7:30pm*



COURTESY ZAHY HAWASS

### Ticket Information

Call 312.665.7400 or visit [www.nationalgeographic.com/nglive](http://www.nationalgeographic.com/nglive) to purchase tickets. A limited number will be available onsite the day of the event starting at 5:30pm, but we recommend reserving tickets in advance since this series sells out.

Also, a series subscription makes a great gift! We'll send the tickets along with a personalized gift card at your request.

### Series Subscriptions—On Sale Now

**Explorers Circle** Help ensure the continuation of the NG Live! series in Chicago! Benefits include reserved seating; a private reception with Zahi Hawass prior to the May 23 event; signed copy of the book *Tutankhamun and the Golden Age of the Pharaohs*; and acknowledgement of your support of the series in each printed event program: \$390; TFM, NG and Geographic Society of Chicago members \$375

**Patron** (reserved seating): \$140; TFM, NG and Geographic Society of Chicago members \$125.

**General admission:** \$105; TFM, NG and Geographic Society of Chicago members \$90; students \$60.

### Individual Events—On Sale January 17

**Patron** \$30; TFM, NG and Geographic Society of Chicago members \$28.

**General admission:** \$24; TFM, NG and Geographic Society of Chicago members \$22; students \$15.

**Educators**—Student programs, teacher workshops, and online lesson plans are provided in conjunction with the series. For more information, go to [nationalgeographic.com/nglive](http://nationalgeographic.com/nglive) or call 312.665.7500.

National Geographic Live! educational programs are made possible by the generous support of Plum Creek Timber Company.

# Examine old legacies and new creations



## The Auschwitz Album: The Story of a Transport

Jan. 27—June 4, 2006

Striking black-and-white photographs taken by Nazi S.S. officers provide the only visual record of the arrival and imprisonment of Hungarian Jews in the Auschwitz-Birkenau concentration camp.

This exhibition was created by Yad Vashem, The Holocaust Martyrs' and Heroes' Remembrance Authority in Israel. The Field Museum presentation is made possible by the American Society for Yad Vashem.

Generous support has been provided by the Crown Family.

## Design Innovations in Manufactured Housing

Through Jan. 16, 2006

Original models and drawings by noted architects and industrial designers offer creative solutions for pre-fabricated homes.

This exhibition was developed by the City Design Center, College of Architecture and the Arts, University of Illinois at Chicago, in collaboration with The Field Museum. The City Design Center, College of Architecture and the Arts, University of Illinois at Chicago received funds from the National Endowment for the Arts and the Graham Foundation for Advanced Studies in the Fine Arts to create this exhibition.

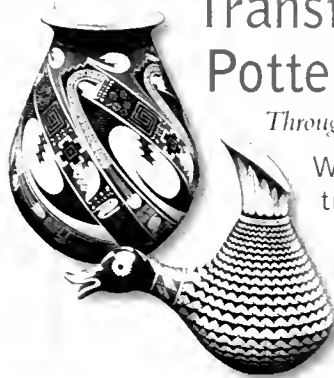


## Transforming Tradition: Pottery from Mata Ortiz

Through May 31, 2006

Witness the rebirth of a unique pottery tradition in the exquisite ceramics from the Mexican town of Mata Ortiz.

This exhibition was organized by The Field Museum.



JOHN WEINSTEIN/A114388.01D

## Visitor Information



**Getting Here:** Field Museum visitors can park in Soldier Field's parking garage. Visit [www.fieldmuseum.org](http://www.fieldmuseum.org) for information on parking lots/rates, free trolleys and public transit.

**Hours:** 9am–5pm daily. Last admission at 4pm. Please note the Museum closes at 5pm even when an evening event is scheduled. Event participants will be asked to leave the building until 30 minutes before their event begins.

**Admission and Tickets:** Member passes can be reserved through the membership department (312.665.7705) or picked up at the membership services desk. For non-members, The Field Museum's gold pass, which includes general admission plus one special exhibition, ranges in price from \$8 to \$19, depending on your age category and whether you are a Chicago resident. Please bring your ID to receive the appropriate ticket price.

Tickets are available at the Museum's admission desks, or in advance via [www.fieldmuseum.org](http://www.fieldmuseum.org) or 866.FIELD.03. For all admission and ticket details, visit [www.fieldmuseum.org](http://www.fieldmuseum.org).

**Accessibility:** Visitors using wheelchairs or strollers may be dropped off at the new east entrance. Handicapped parking and wheelchairs are available on a first-come, first-served basis. Call 312.665.7400 to check on the accessibility of programs that take place outside of the Museum.

**Information:** 312.922.9410 or [www.fieldmuseum.org](http://www.fieldmuseum.org)



Photo: © Bob

The Field Museum is a 501(c)(3) nonprofit organization. The Field Museum is a member of the American Association of Museums and is fully supported by a CityArts grant. The Field Museum is a member of the American Association of Museums and is fully supported by a CityArts grant.

# The Terrible Marsupial Saber-Tooth



VELIZAR SIMEONOVSKI

On Sept. 21, 1926, Elmer Riggs, The Field Museum's first vertebrate paleontologist, was conducting fieldwork in northwest Argentina in rocks now dated at 3.5 million years. He made an important find—a skull and partial skeleton of an animal that looked very similar to a saber-toothed tiger. But this was no cat! The specimen formed the basis for a new species that Riggs named *Thylacosmilus atrox*, the marsupial saber-tooth. Living marsupials include animals such as the opossum and kangaroo. Riggs had found a striking example of “convergence,” the evolution of similar traits in two unrelated lineages of organisms.

*Thylacosmilus was a powerfully built animal, almost as big as a jaguar.*

*Thylacosmilus atrox* was powerfully built and almost as big as a jaguar. Its huge canine teeth were longer than any saber-toothed tiger's, with the roots embedded all the way behind the eyes. In addition, these sabers were ever-growing, an advance over the any of the other saber-tooths.

For much of the “Age of Mammals,” South America was an island continent where giant flightless “terror birds” and carnivorous marsupials, including *Thylacosmilus*, were the largest meat-eaters. When the Isthmus of Panama formed and united the Americas, dogs, bears and cats entered South America for the first time. Marsupial saber-tooths went extinct and terror birds made it to what is now Florida before they also died out.

Riggs found a total of three *Thylacosmilus* specimens. The second included a lower jaw with a large flange projecting down from the front. The flange protected the saber when the mouth was closed, as a scabbard protects a sword. The third specimen was smaller and formed the basis for a second species that Riggs called *Thylacosmilus lentis*. Riggs sent this specimen to Argentina to be held in the research collections of the Museo de La Plata.

The Field Museum's *Thylacosmilus* specimens represent much of what we know about this rare animal and paleontologists from around the world come here to study them. When the Museum's new *Evolving Planet* exhibition opens next March, casts of the skull of *Thylacosmilus*, a terror bird skeleton, and a real saber-toothed tiger skeleton will be on display.

*Bill Simpson, The Field Museum's collections manager of fossil vertebrates, chose this Scientist's Pick.*

# Essential Gear That Scientists Won't Leave Home Without

Compiled by Stephany Schings, Writer  
Photography by Diane Alexander White

Field Museum scientists often work miles from the nearest towns and endure some of the world's harshest climates and terrains. The success of their efforts, and even their own well-being, depends on what they carry with them in backpacks and duffel bags. A survey of several scientists revealed interesting, and sometimes surprising, answers to the question, "What equipment is essential to your field work?"

**L. Antonio Curet, PhD,**  
*Assistant Curator, Department of Anthropology*

I cherish a small hand tool that at first looks like a dental tool, but is not.

Because of my "emotional" attachment to this tool and how protective\*

I am of it, my students and field assistants have named

it Excalibur! It is made of steel with a triangular, sturdy point resembling an arrowhead on one end, and a small spatula on the other. The point is strong enough to dig hard, clay soils, while the spatula is very handy for removing loose dirt. Its small size and relatively heavy weight are ideal for conducting precision work without damaging the objects; I never go to an excavation without it.

\*Editor's note: According to other Field Museum anthropology curators, good archaeology tools are often "borrowed," never to be returned!



**Lisa Bergwall (left) and Connie Vanbeek**  
*Fossil Preparators, Department of Geology*

**Vanbeek:** I take a thin rubber pad that expands to two inches thick when inflated with air and resides under one's sleeping bag, thus making a good night's sleep more of a reality. Essential equipment!

**Bergwall:** An inflatable pad is important the first couple of nights, but after that, you're so tired... I could have a rock under my back and still sleep! A multi-purpose knife is essential to me when I'm in the field. I also need to have a topographic map—I like to see where we are.



**Carl W. Dick, PhD,**  
*Brown Postdoctoral Fellow, Department of Zoology*

I am a postdoctoral associate of Bruce Patterson, PhD, MacArthur curator of mammals at The Field Museum. I study the ecology and evolution of parasites and their relationships with their hosts. My study organisms are rather bizarre: blood-feeding fly parasites that exist nowhere except on the bodies of bats. Because bat fly species usually are specific to their host species, I must capture the bats in order to study the flies. A piece of equipment essential to this task is a mist net. Developed by the Japanese to capture birds, mist nets are made of lightweight nylon or polyester threads, supported by five or six heavier shelf cords. Between each shelf cord, the mesh net bunches up into folds. Nets—usually 20 to 60 feet long and about nine feet high—are stretched along and across places where bats fly at night, such as trails or roads, over water sources, near fruit trees, or sometimes over the exits of the bats' roosts. If the net is placed correctly, bats fly into the soft net and become entangled within the folds between the shelf cords. Once the bat is captured, it is gently untangled from the net.





**Akiko Shinya**

*Chief Preparator, Fossil Vertebrates,  
Department of Geology*

Among many essential items in the field, my solar-powered triple sensor watch will always be with me throughout the trip.

When prospecting, we normally establish a time to meet, usually in two to three hours after we set out. It's impossible to tell time without a watch in the middle of nowhere. I once had an incident where I didn't have a watch, making my team wait for me for two hours. I also had a clock with batteries, but it stopped working. This solar-powered watch charges fully while I'm out in the sun.

It also has a compass, an altimeter, and a barometer, which is handy for predicting weather change.



**Greg Mueller, PhD,**

*Curator, Department of Botany*

People frequently ask me what I'm carrying when I get off the plane with my big duffel bag bursting at the seams. I carry a lot of gear, but several items are critical: my camera, my "true color" lamp, vials of chemicals that act as a DNA fixative, and my mushroom dryer. Because the mushrooms lose their color and shrivel up upon drying, I need to document their appearance in fresh condition. I take detailed notes on the size, shape, texture, odor, color and taste—but I don't taste the deadly poisonous species! Regular light bulbs do not give off the same color as sunlight, however with my "true color" lamp I get accurate color information. Since a photo is worth a thousand words, I take a picture of each specimen before drying it. Then I place small bits of selected mushrooms into the vials of DNA fixative. Finally, I preserve the specimens with a food dehydrator that's similar to what people use to make banana chips and dried apples. Two other items—one low-tech and one high-tech—are essential in the field: a large basket for carrying specimens and a global positioning system (GPS), so that I know my location.



**Dan Brinkmeier**

*Manager of International Community Outreach,  
Environmental and Conservation Programs*

One thing I can't live without when I'm traveling in the field is my iPod. I bought one right away when they became available back at the end of 2002. I can't imagine being without one now. It is especially fun to share music with people. The Cofán, the indigenous group we work with in Ecuador, seem to prefer the hard stuff—Metallica, Black Sabbath and Queens of the Stone Age, that sort of thing. The louder, the better. I also never travel without a pair of noise-canceling headphones. Not only can you use them on long flights, but you can also wear them in noisy hotels so that you can get to sleep at night.



MIGUEL MACEDO



# Field Museum Archaeologists Help Chinese Colleagues Stay One Step Ahead of the Bulldozer

Louis Wertz, Writer

Field Museum anthropologist Anne Underhill, PhD, had recently finished her doctorate in 1993 when the opportunity of lifetime came along. It was China. After about 50 years of keeping foreign archaeologists out, the world's most populous country was inviting them in. Dr. Underhill, who had to write a dissertation on China without the benefit of her own fieldwork, jumped at the opportunity.



Anne Underhill, PhD.

But China's open door wasn't just for archaeologists. Foreign investment in the country also swelled. Rapid development funded by several sources continues to push the nation's cities up and out. *The China Transportation Yearbook* states that between 1988 and 2002, more than 15,500 miles of expressways were dug, flattened, and paved.

How can archaeologists save and study several thousand years of Chinese history and prehistory when an army of bulldozers threatens to destroy important sites? Back in the mid-1990s, Dr. Underhill and her colleagues saw a solution. Her project, focused on the prehistoric town of Liangchengzhen in northern China's Shandong Province, would be the first in that country to employ systematic regional surface survey. Using this field procedure, surveyors on a team walk about

providing a smaller scale of observation, and in that part of China there would never be sufficient time or resources to provide a complete regional picture or census of ancient sites on the landscape.

"No one had done systematic regional surface survey in China," Dr. Underhill said. She believed the method could effectively identify the regional settlement pattern around Liangchengzhen, thus providing new information about relations between communities. At the same time, it could identify sites that might soon be destroyed by China's rapid economic and population growth.

That's where Field Museum Anthropology Chair Gary Feinman, PhD, then a professor at the University of Wisconsin, came in. Years earlier, he had helped pioneer systematic survey at sites in Mexico. In 1995, at Dr. Underhill's request, Dr. Feinman traveled to China with his wife, anthropologist Linda Nicholas, an expert in reading maps. They worked with Dr. Underhill and helped train Chinese archaeologists in the survey method. At first, it was a tough sell.

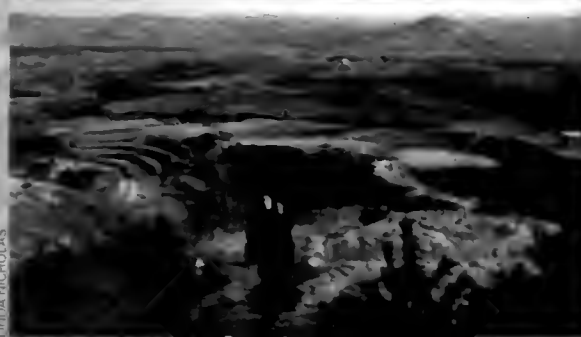
"We were walking up forested hills, through apple orchards. They wondered, 'why bother?'" Dr. Underhill recalled. But the project produced impressive results showing that Liangchengzhen was the center of a hierarchical network of smaller sites that, in turn, oversaw many smaller farming hamlets. Shandong University and the Rizhao City Cultural Bureau are planning to host a conference to discuss with other Chinese archaeologists the wider significance of the project's findings from the survey and the excavation at Liangchengzhen (1998–2001). Dr. Feinman sees it as an audition for the survey methodology. Although they did not invent regional survey, Dr. Feinman and Linda Nicholas are now in part responsible for its growing popularity in two of the most archaeologically rich countries in the world—Mexico and China. "I'm hoping that we can continue to influence Chinese scholars to do more regional survey," he said.

Thanks to The Field Museum's scientists, China's archaeologists may finally be able to breathe a sigh of relief in the face of all those bulldozers. **ITF**

'[Dr. Feinman and Linda Nicholas] worked with Dr. Underhill and helped train Chinese archaeologists in the survey method. At first, it was a tough sell.... But the project produced impressive results...'

50 yards apart and at the same pace, over the land looking for artifacts. In time, and through systematic application of this methodology, large areas are covered. The presence of artifacts on the surface indicates a site lies beneath. The more traditional method of digging at sites is far more expensive,

Left: Dr. Underhill climbing an upland area in China.



LINDA NICHOLAS

# Resiliency After a Natural Disaster Depends on Strength of Community and Conservation Groups

*Alaka Wali, PhD, John Nurreen Curator in Anthropology and Director, Center for Cultural Understanding and Change, The Field Museum*

When a natural disaster strikes, the degree of impact, the differences in vulnerability among the affected population and the quickness with which people will recover are all dependent on the social conditions prior to and after the disaster.

We know from anthropological research that people can be extremely resilient after a disaster, finding ways to use existing social relationships to rebuild the material infrastructure necessary to survival.

The most effective way to safeguard people and work toward quick recovery in a disaster's aftermath is to understand and utilize existing social assets in implementing interventions. For example, communities often develop their own information sharing networks that may be independent of standard media broadcasts. Knowing how community networks function is critical for pre-disaster communications.

The Field Museum's Center for Cultural Understanding and Change (CCUC) recently completed a study of the cultural assets of new immigrants from Mexico. We found a variety of ways in which immigrants keep in touch with each other, including reliance on associations of immigrants from their own hometowns. These organizations are trusted

sources of information. In general, even the most vulnerable populations have developed their own strategies for accessing resources or organizing themselves. In the communities where CCUC has been building partnerships to either promote the value of cultural diversity or work to improve the quality of life, we have found a wealth of such social assets and creative capacities that are indicators of a community's ability to withstand adverse circumstances or recover quickly after disaster passes. We have found block associations, social clubs, arts groups, kinship networks, faith institutions and much more.

Destroying or neglecting such social assets by breaking up networks of support, or not allowing people to participate in rebuilding activities, will slow recovery or make the impact of the disaster worse. Our work demonstrates that including community assets in a "first response" system has the potential to make it truly comprehensive, mitigating disasters' impacts and saving lives.



DIANE ALEXANDER WHITE

**'Knowing how community networks function is critical for pre-disaster communications.'**

— Alaka Wali, PhD.

*Laurel Ross, Conservation Implementation Regional Director, Environmental and Conservation Programs, The Field Museum*

There is nothing inherently evil in the forces of nature. A natural "disaster" is only a disaster when it harms the life and property that we value.

From nature's point of view, fires, floods, earthquakes, hurricanes and tsunamis are disturbances that play important roles in preserving the diversity of life on Earth. Many species and natural communities depend on these disturbances to maintain their health. Midwest prairies and oak woodlands thrive on fire and languish without it. Spring floods provide habitat for migrating waterfowl and critical spawning habitat for many fish species.

However, we know the destruction that is caused when a major natural disturbance occurs where people live. It is important for us to try to understand, prepare for, and predict these phenomena. We cannot control nature, but we can try to be wise in living with nature.

In the Chicago region, we are fortunate that a century ago visionary leaders made the decision to invest public dollars in the protection of land that now comprises a mosaic of over 275,000 acres of preserved areas. Make no mistake—it is not only orchids and butterflies that benefit from these pre-

serves. Natural resources in urban areas are called *green infrastructure* because they make major contributions to the quality of life of people in densely developed landscapes. Chicago's green infrastructure has been called our "barrier islands," protecting us from nature's fury by collecting, storing, and infiltrating storm water.

In 1995, The Field Museum along with 33 other conservation-conscious institutions launched an effort called Chicago Wilderness (CW), dedicated to celebrating and expanding the area's tradition of conservation. Today, CW has 182 member organizations that are changing the vision and management of our region from one of many patches of green in a sea of people to that of a thriving metropolis with a valuable green infrastructure essential to our welfare and worthy of our support. **ITF**



DIANE ALEXANDER WHITE

**'We cannot control nature, but we can try to be wise in living with nature.'**

— Laurel Ross

# Field Museum Website to Feature World's Columbian Exposition Collection

*Stephen E. Nash, PhD, Head of Collections, Department of Anthropology, The Field Museum*

One hundred-twelve years ago, visitors to Chicago were treated to a rare spectacle: a group of Eskimos in their traditional clothes walking in the summer heat through an Egyptian bazaar complete with "scandalous" belly dancers. These sights were part of the cultural displays at the World's Columbian Exposition, which opened to great fanfare on May 1, 1893.

*Top: Pottery from Graham Canyon, Utah, featured at the World's Columbian Exposition.*

*Center: "Ferris Wheel, and Bird's Eye View of Midway." Large photographic print, 1894, from The White City (As It Was). Creator: Jackson, William Henry, 1843–1942.*



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Four times larger than any previous world's fair, the Columbian Exposition included 65,000 exhibits in 300 buildings spread over 686 acres in Jackson Park and the Midway Plaisance on Chicago's south side. When the Exposition closed on Oct. 31, 1893, more than 27 million people, a number at that time equivalent to half the population of the United States, visited the fair and witnessed the debut of things such as the Ferris Wheel, Shredded Wheat, Aunt Jemimah Syrup and Cracker Jacks.

The Columbian Exposition was also responsible for introducing the American public to the emerging science of anthropology. More than 100 anthropologists, government officials, missionaries, and U.S. Army and Navy officers collected thousands of objects for the Columbian Exposition to showcase the development of cultures in the Americas. In addition, international commissions from Australia, Brazil, Ceylon, Columbia, Ecuador, Egypt, India, Italy, Japan, Java, Mexico, Sweden, and elsewhere sent exhibits highlighting their culture and history. All told, nearly 50,000 anthropological objects were displayed at the Exposition and later at the Columbian Museum, the predecessor to The Field Museum. Today, much of the Columbian Exposition collection is stored in the Museum's vaults, with only

a handful of items on public display, such as the totem poles in Stanley Field Hall.

With the assistance of a \$146,000 grant from the Gaylord and Dorothy Donnelley Foundation, the Museum will be working over the next two years to digitally photograph the original Columbian Exposition collection and create a website that will include information about the objects, both in their historical context and within the framework of the World's Columbian Exposition. Highlights of the collection include an abundance of 19th century ethnographic objects, ranging from Sri Lankan masks to Zulu artifacts from southern Africa. The collection also contains items that were particularly unique to the Columbian World's Exposition, such as a 23-foot-wide by 13-foot-tall silk Japanese tapestry made specifically for the event and which is currently on display in Japan.

By September 2007, more than 20,000 items will be available for viewing through the website, allowing the public to explore the complete collection for the first time in more than 100 years. The Museum also plans to digitize its collection of archival materials detailing the historical and cultural significance of the World's Columbian Exposition.

*For more information on this project, please visit the preliminary Columbian Exposition website at [www.fieldmuseum.org/wcecollection](http://www.fieldmuseum.org/wcecollection).*

*"Ruins of Yucatan" outside of Anthropological Building from Columbian Gallery: A Portfolio of Photographs of the World's Fair, The Werner Company, 1893.*





## Two Special New Membership Categories

### Royal Tut at \$125, and Tut at Twilight at \$250

We've streamlined the advanced ticketing process, created concierge services, and added more value! Let us give you the royal treatment with four tickets to *Tutankhamun and the Golden Age of the Pharaohs*\* at \$10 each (a 33 percent

discount off the public price), exclusive phone hotline, express ticketing line at the membership desk to obtain any tickets that might be available for that day or dates in the future, and two limited-edition, collector membership cards. "Tut at

Twilight" members will also receive two free tickets to their choice of 20 after-hour viewing opportunities—a \$100 value! Learn more about these categories on [www.fieldmuseum.org](http://www.fieldmuseum.org).

## Member Ticket Pre-Sale for King Tut

Obtain your member tickets for *Tutankhamun* beginning Dec. 13—five weeks before the public sale. Member tickets are \$10 each. The quantity available depends on your category of membership. Members may purchase additional tickets by ordering via the Museum's website [www.fieldmuseum.org](http://www.fieldmuseum.org), by phone (312.665.7705), or at the membership services desk. A service charge will apply to phone and web sales. The exhibition opens to the public May 26, 2006 and runs through Jan. 1, 2007.

**Membership Refund, Exchange and Lost Ticket Policy:** Member discounted tickets are non-refundable. Exchanges for discounted tickets or free tickets are allowed up to one day prior to the ticket date and only once per order. "Tut at Twilight" and Annual Fund members may exchange tickets at any time. Lost tickets will be reissued to members if the Museum's membership department receives notice one day prior to the ticket date.

## Taxes and Tut: Two Good Reasons to Give Before Year-End

Congress has enacted the *Katrina Emergency Tax Relief Act of 2005 (KETRA)* to encourage charitable giving for the remainder of 2005. Although prompted by the crisis of Hurricane Katrina, KETRA encourages increased giving to all recognized public charities. Under KETRA, the contribution limit for gifts of cash (not securities) made by individuals to public charities such as The Field Museum has increased from 50% of adjusted gross income to 100% of adjusted gross income through Dec. 31.

Being a donor in The Founders' Council is a wonderful way to experience *Tutankhamun and the Golden Age of the Pharaohs*. All Founders' Council donors will be invited to an exclusive preview event. In addition, FC donors will receive four complimentary tickets and the opportunity to purchase an unlimited number of \$10 discounted member tickets to the exhibition. For more information on end-of-year giving and The Founders' Council, please call 312.665.7773 or email [fcouncil@fieldmuseum.org](mailto:fcouncil@fieldmuseum.org).



*Canopic Coffinette of Tutankhamun*

## Annual Fund King Tut Benefits

Becoming a donor to The Annual Fund is a great way to get the most out of your King Tut experience. All Annual Fund donors will be invited to an exclusive *Tutankhamun and the Golden Age of the Pharaohs* preview event. In addition, Field Explorers and Field Naturalists

(\$500 and above) will receive three complimentary tickets and the opportunity to purchase an unlimited number of \$10 discounted member tickets. Field Adventurers (\$250–\$499) will receive two complimentary tickets and an unlimited number of \$10 discounted member tick-

ets. Field Contributors (\$150–\$249) will have the opportunity to purchase a total of eight \$10 discounted member tickets. For more information on the many opportunities available with The Annual Fund, please call 312.665.7777 or email [annualfund@fieldmuseum.org](mailto:annualfund@fieldmuseum.org).

## Do Your Holiday Shopping at The Field Museum Stores

Take a trip to sunny Italy by visiting The Pompeii Exhibition Store! We offer products that turn your bath into a Roman spa, including sponges, bath salts, robes, slippers and hand towels. Accent your holiday wardrobe with luxurious scarves, as well as pearl jewelry and hand-carved Italian lava cameos. For home and garden, we feature a mosaic wall fountain and Roman statuary and planters. Our Italian cuisine items include pasta, chocolates, olive oil and vinegar, and accoutrements for wine lovers. The stores also have toys and books about volcanoes as well as a volcano-shaped rock display.

\* The Exhibition is organized by National Geographic, Arts and Exhibitions International, and AEG Exhibitions in association with The Supreme Council of Antiquities of Egypt and The Field Museum.

Tour Sponsor: Northern Trust. Chicago Sponsor: Exelon, Proud Parent of ComEd.



# Reopening Your Museum

Greg Borzo, Media Manager, Scientific Affairs

On Sept. 12, The Field Museum officially opened its new, \$65 million Collection Resource Center (CRC). Now begins the gargantuan task of moving about two million artifacts and specimens from overcrowded storage rooms into the 186,000-square-foot, climate controlled facility—a job that could take up to four years. Since many of the objects are especially large, the move will free up as much as one-third of the Museum's current collections space, some of which will be converted into public exhibition areas and a hands-on education center.

Each item transferred into the CRC has a specific, designated place in one of the center's 45,500 shelves, trays or drawers. But the CRC is much more than a big storage facility. It houses more than 10 scientific laboratories, a photography darkroom, x-ray equipment, and special rooms for freezing and storing specimens of tissue, blood and DNA. It also includes conference and seminar rooms, and workrooms where scholars can study the Museum's collections.

The new facility features innovative safety features, such as a fire-suppression system with hydrofluorocarbon gas as a first line of defense. Overhead water sprinklers would be used only as a last resort, since water would damage the priceless collections. The CRC was also designed with spark-proof rooms for storing specimens preserved in containers of fluid, typically 70 percent ethyl alcohol. To prevent any chance of a spark, no outlets or computers are allowed in these rooms, and all light fixtures are fully enclosed. Cables in the floors can detect if any alcohol—even one drop—is spilled. In that event, fans automatically draw off the alcohol fumes, minimizing the risk of an explosion.

The CRC expansion is expected to solve our growing needs for the next 25 to 30 years, according to Scott Demel, PhD, Field Museum collection project coordinator.



Mary Anne Rogers (left), collection manager, division of fishes, explains CRC storage during the Sept. 12 tour.



A guest examines a cast of Sue's skull that will be moved into the CRC.

## Please Note These Special Museum Hours

*The Museum will be open late on the following dates:*

Monday, Dec. 26 through Friday, Dec. 30, hours: 9am–7pm; last admission 6pm.

*The Museum will close early on these dates:*

Thursday, Dec. 8, hours: 9am–3pm; last admission 2pm.

Wednesday, Dec. 14, hours: 9am–4pm; last admission 3pm.

Saturday, Dec. 24, hours: 9am–3pm; last admission 2pm.

Saturday, Dec. 31, hours: 9am–3pm; last admission 2pm.

# INTHEFIELD



The Field Museum's Member Publication

## EVOLVING PLANET:

The Science and  
the People Behind  
Our Newest  
Exhibition

## Evolutionary History is at the Heart of Our Mission



The Field Museum's new permanent exhibition *Evolving Planet* opens March 10. This exhibition, which covers 27,000 square-feet, presents the history of life as it has unfolded over Earth's long history through the process of evolution.

The theory of evolution has taken center stage in recent months in the media and even in our nation's court system.

Rendering by Karen Carr

Evolution is the accumulation of inherited changes in populations of organisms over the course of generations. These changes can result either from mutation or from the recombination of genes. Over time, such changes can result in entirely new species. Evolutionary biology explains the process by which all life on Earth has come to exist and the interrelationships among species.

Since 1893, Field Museum scientists have been actively engaged in research around the world, in their laboratories, and with the Museum's collections, which

include over 23 million objects and specimens. Whether studying a fossil to gain a deeper understanding of *T. rex*, establishing the ancestry of spiders, unraveling the genetic code of mushrooms, or digging into our own human origins, our scientists use evolutionary theory every day. This continuing commitment to deepening our knowledge of evolution keeps us at the forefront of scientific research. Developing exhibitions and educational programs that address evolution, meanwhile, keeps us true to our mandate to educate and inspire

a broad public about the natural sciences.

Theories—explanations that fit the evidence at hand—are meticulously tested through trained observation, repeatable experiments, and extensive peer review before they are accepted among the scientific community. From time to time, they are revised as new evidence arises. Although there is debate in the scientific community about exactly how evolution works, the theory itself has come up against no substantial conflicting scientific evidence. It is well established as the scientific explanation for our world's rich biodiversity, and has become the cornerstone of biology. Molecular biology, population biology, comparative anatomy, and paleontology all continue to deepen our understanding of evolution and extend its power to explain life on Earth. As a scientific institution, The Field Museum embraces its obligation to present evolution to the public as the explanation for the patterns of biodiversity that we see today.



John W. McCarter, Jr.  
President and CEO

Below: Members of the Museum's Exhibitions Department who contributed to *Evolving Planet*.



## What do you think about In the Field?


For general membership inquiries, including address changes, call 866.312.2781. For questions about the magazine *In the Field*, call 312.665.7115, email [noshea@fmnh.org](mailto:noshea@fmnh.org), or write Nancy O'Shea, Editor, The Field Museum, 1400 South Lake Shore Drive, Chicago, IL 60605-2496.

# INTHEFIELD

Spring 2006, March–May  
Vol. 77, No. 2

**Editor:**  
Nancy O'Shea, The Field Museum

**Design:**  
Depke Design

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**Cover:** Two *Herrerasaurus* do battle in a scene that might have taken place 230 million years ago. The Field Museum's new *Evolving Planet* exhibition takes visitors on a journey through four billion years of life on Earth. Rendering by Karen Carr.

The Field Museum salutes the people of Chicago for their long-standing, generous support of the Museum through the Chicago Park District.

**The Field Museum**

1400 South Lake Shore Drive  
Chicago, IL 60605-2496  
312.922.9410  
[www.fieldmuseum.org](http://www.fieldmuseum.org)



JOHN WEINSTEIN/GNO724 065D

DIANE ALEXANDER WHITE

2

Our newest permanent exhibition, *Evolving Planet*, opens to the public on March 10. It includes nearly 1,300 unique specimens and more than 100 interactive displays.

*Top:* Artist Karen Carr's rendering of *Dimetrodon*, one of the most ferocious carnivores of the Permian Period (290–248 million years ago).

4

*Evolving Planet's* project manager and content specialist discuss how the Museum's exhibitions team and academic staff worked together to create the exhibition.

*Middle:* *Evolving Planet* features 23 newly restored murals by Charles R. Knight.

6

The Field Museum's Education Department provides materials to help teachers and parents explain evolution. Also, Museum docents attended a series of special classes to prepare for *Evolving Planet*.

*Bottom:* Museum educator Mara Cosillo-Starr with materials that teach children about Earth's history.

16


Throughout *Evolving Planet*, video presentations allow visitors to meet nine Field Museum scientists and learn more about their research. These scientists, whose work helped shape the exhibition, are profiled in a special four-page article.

## Museum Campus Neighbors

**Adler Planetarium** The popular sky-show *Stars of the Pharaohs* returns to the Adler May 26 and runs through Jan. 1, 2007. Visit ancient Egyptian ruins—remnants of a vibrant civilization that was the most advanced and powerful on Earth. And don't miss the Adler's *Far Out Fridays* held the first Friday of every month—March 3, April 7, and May 5. Activities include telescope viewing of the night sky, unlimited shows in the Sky and StarRider Theaters, Doane Observatory tours, and more. Explore the universe at America's first planetarium, home to two full-sized theaters. For more information, visit [www.adlerplanetarium.org](http://www.adlerplanetarium.org), or call 312.922.STAR (7827).

**Shedd Aquarium** Do you believe in dragons? You just might after meeting the Komodo at Shedd Aquarium. A mouth packed with sharp teeth and deadly bacteria, the ability to track its prey for miles, the hunger to devour an entire pig in 20 minutes—and those are its good qualities! Check out the Komodo, basilisks, caiman lizards, chameleons and more. From the tiny day gecko to the world's longest lizard, the crocodile monitor, they'll all be at Shedd starting April 8. For details, visit [www.sheddaquarium.org](http://www.sheddaquarium.org) or call 312.939.2438.





# EVOLVING PLANET: A JOURNEY THROUGH FOUR BILLION YEARS OF LIFE ON EARTH

The Field Museum's newest permanent exhibition, *Evolving Planet*, opens March 10. It's a fascinating journey through four billion years of life on Earth, from single-celled organisms to giant dinosaurs and our extended human family. Unique fossils, animated videos, hands-on interactive displays, and recreated seascapes and landscapes help tell the compelling story of evolution—the single process that connects everything that has ever lived on Earth. “*Evolving Planet* gives visitors a new look at the evolution of life on Earth, and the scientific evidence on which that story is based,” says paleontologist Richard Kissel, the exhibition's content specialist. For example, he says, the recent discovery of dinosaurs with feathers and wishbones has all but cinched the case that birds are their direct descendents. In contrast, new scientific debates are swirling around life's origins: Did it arise near deep-sea hydrothermal vents, or were organic compounds brought to Earth on a meteorite? Meanwhile, new technologies for dating and analyzing fossils, along with DNA analysis, have cast new light on human evolution.

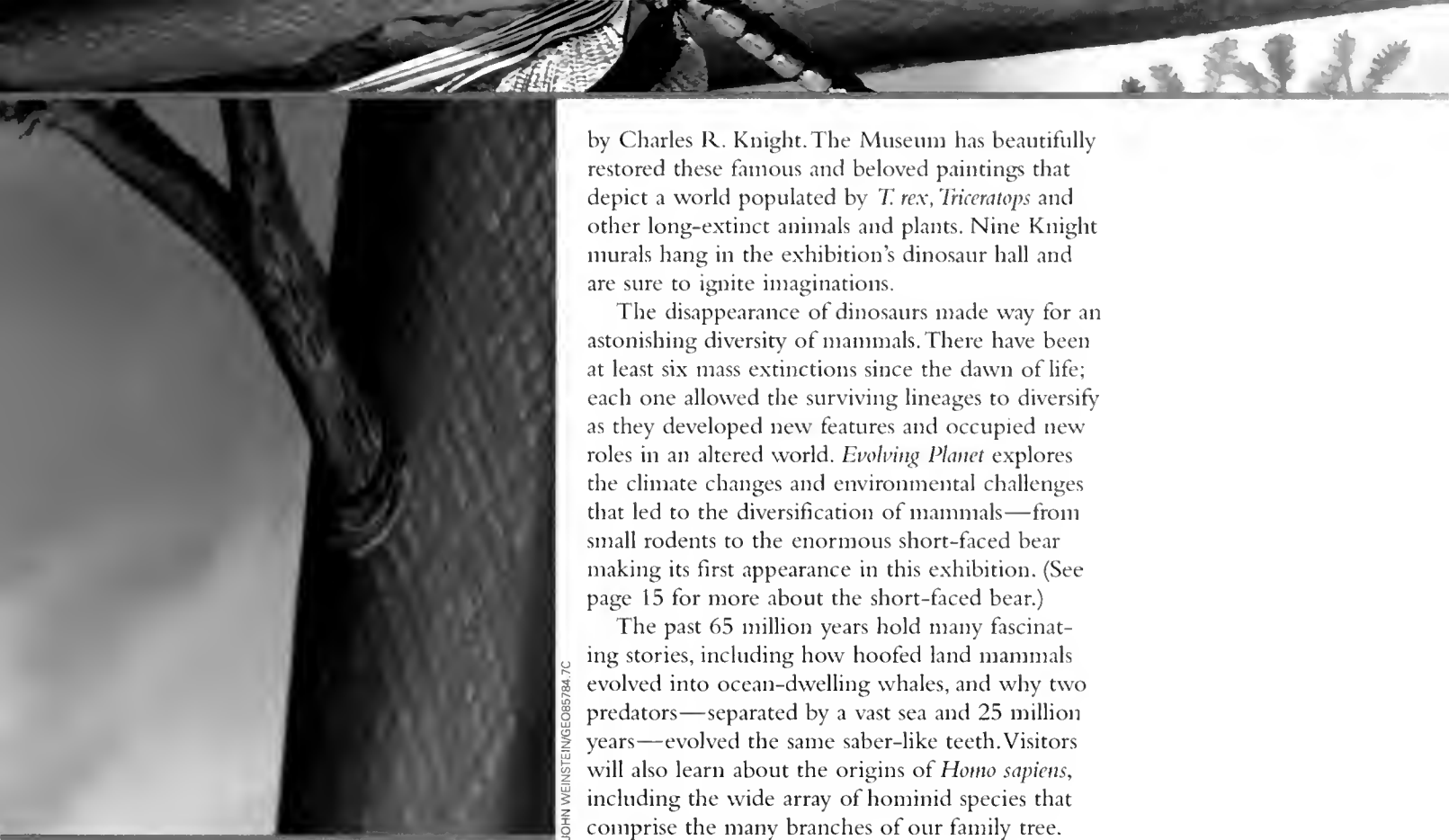
In video presentations throughout the exhibition, Field Museum scientists explain what we're still learning about the past, present, and future of life on Earth. (See page 16 for profiles of these scientists.) *Evolving Planet* illuminates both time-tested and emerging ideas about the evolution of life with state-of-the-art exhibition tools, including a spectacular animated screen that surrounds visitors with 500-million-year-old sea creatures.

But the real stars of the exhibition are the fossils, including hundreds never before displayed and many that are rare or exclusive to The Field

Museum. Among them are the oldest known fossil of cells whose DNA is contained within a nucleus; the “Tully monster,” an odd marine creature (and Illinois state fossil) discovered not far from Chicago; the oldest known complete skeleton of a bat, a creature that has scarcely changed in 50 million years; and several dinosaurs making their Field debut.

A highlight of many visitors' journey through *Evolving Planet* will be the Mesozoic Era—the age of dinosaurs—and dinosaur fans of all ages are in for a treat! The new Genius Hall of Dinosaurs





JOHN WEINSTEIN/GEORGE B. 784/7C

houses a gargantuan display, with authentic fossils and detailed casts spanning the era from *Herrerasaurus*, one of the earliest dinosaurs, to the ferocious meat-eaters of the Cretaceous Period. Among the long-necked sauropods are a 72-foot-long *Apatosaurus*; original bones from the *Brachiosaurus* (a cast of which stands guard outside the Museum), and the 18-foot-long youngster of a new dinosaur, *Rapetosaurus*, discovered recently in Madagascar. The armored *Stegosaurus* is here, as well as the horned and frilled ceratopsians and a pachycephalosaur with its huge helmet of bone. Representing the plant-eating ornithopods is a *Parasaurolophus*, newly mounted in a life-like pose.

While Sue, the Field's premier theropod (meat-eater), holds court downstairs in Stanley Field Hall, Sue's world is represented in *Evolving Planet* by a variety of animal and plant fossils that were found along with the *T. rex* skeleton, including crocodiles, lizards, fish, and other dinosaur bones. Sue's close cousin, *Daspletosaurus*, hunches over the body of a duck-billed hadrosaur. Nearby are another, more distant cousin, *Allosaurus*; the raptor *Deinonychus*; and *Cryolophosaurus*, one of the first dinosaurs found in Antarctica.

As visitors dig deeper, they will discover what makes a dinosaur a dinosaur, what was happening to the Earth's climate and land masses during their time, and much more. There's a special activity area for junior dinosaur fans, with lots of interactive displays. *Evolving Planet* prominently features 23 huge murals painted for The Field Museum 80 years ago

by Charles R. Knight. The Museum has beautifully restored these famous and beloved paintings that depict a world populated by *T. rex*, *Triceratops* and other long-extinct animals and plants. Nine Knight murals hang in the exhibition's dinosaur hall and are sure to ignite imaginations.

The disappearance of dinosaurs made way for an astonishing diversity of mammals. There have been at least six mass extinctions since the dawn of life; each one allowed the surviving lineages to diversify as they developed new features and occupied new roles in an altered world. *Evolving Planet* explores the climate changes and environmental challenges that led to the diversification of mammals—from small rodents to the enormous short-faced bear making its first appearance in this exhibition. (See page 15 for more about the short-faced bear.)

The past 65 million years hold many fascinating stories, including how hoofed land mammals evolved into ocean-dwelling whales, and why two predators—separated by a vast sea and 25 million years—evolved the same saber-like teeth. Visitors will also learn about the origins of *Homo sapiens*, including the wide array of hominid species that comprise the many branches of our family tree.

## 'Evolving Planet gives visitors a new look at the evolution of life on Earth, and the scientific evidence on which that story is based.'

One of the most fascinating stories is that of Lucy, an early member of our family from the species *Australopithecus afarensis*. A cast of Lucy's skeleton shows why her discovery in 1974 was so significant: the shape of her pelvis and legs indicates she walked upright, like us; but her brain was small and her skull the size of a chimpanzee's. It was this discovery that convinced scientists that humans began to walk upright *before* our brains grew large, not the other way around.

*Evolving Planet* is made possible by a generous contribution from Anne and Kenneth Griffin. The Griffins said, "We are delighted to sponsor this amazing exhibition. We especially appreciate *Evolving Planet*'s emphasis on showcasing Field Museum scientists and their discoveries. The Field Museum is an institution of international importance, providing educational experiences for millions of visitors over many generations. We are so pleased to be able to help make *Evolving Planet* possible." ITF


For more information visit [www.fieldmuseum.org/evolvingplanet](http://www.fieldmuseum.org/evolvingplanet).

*Evolving Planet* is made possible by Anne and Kenneth Griffin. The Elizabeth Morse Genius Charitable Trust is the generous sponsor of *Evolving Planet*'s Genius Hall of Dinosaurs.

# THE MAKING OF EVOLVING PLANET

AN INTERVIEW WITH RICHARD KISSEL AND TODD TUBUTIS

Nancy E. Shapiro  
Rendering by Nature



When Todd Tubutis was a high school student in the Chicago suburb of Park Forest, he wrote The Field Museum asking for a job. He was turned down. Undeterred, Tubutis went on to earn bachelor and master's degrees in anthropology and museum studies. In 2001, he was hired by The Field Museum's Exhibitions Department, and for the past five years has served as project manager for the Museum's new *Evolving Planet* exhibition. Paleontologist Richard Kissel, whose undergraduate and master's degrees are in geology, is finishing his dissertation in zoology. Since 2003, he has worked as *Evolving Planet's* content specialist—a job that requires him to use his knowledge of science to help shape an exhibition.

While Tubutis and Kissel have different skills and educational backgrounds, both have made significant contributions to *Evolving Planet* and are proud of the impact the exhibition will have in presenting evolution to the public. *In the Field* talked to them about their work.

What role did each of you play in the making of *Evolving Planet*?

I led the development and design team responsible for revitalizing the former *Life Over Time* exhibition. As we progressed, it became clear that a brand new exhibition deserved a new name: *Evolving Planet*.

I ensured that all of the science in the exhibition is correct and up-to-date. I also acted as a

liaison between the Exhibitions Department and the Geology Department.

Why did the Museum decide to "revitalize" its exhibition on evolution?

In 2001, we conducted a study and found that visitors were not leaving *Life Over Time* with the messages we wanted them to take away. There were elements of the exhibition that simply weren't working—some hands-on components often broke

down and as a result, weren't conveying specific messages to our visitors.

Since *Life Over Time* opened in 1994, much has happened—scientists have made many new discoveries, and movies like *Jurassic Park* and TV programs such as those on the Discovery Channel have changed the public's expectations of how this kind of material is presented. Also, when our exhibition of Sue opened in 2000, it raised the bar for the way we exhibit and explain paleontology.

**ITF:** How does the Museum's scientific staff work together with the Exhibitions Department?

**Kissel:** As an educational institution, it's the Museum's responsibility to present scientifically accurate information to our visitors, so the Exhibitions Department works closely with the scientific staff as new exhibitions are developed. Because of *Evolving Planet's* size and scope however, my position was created to lessen the burden on our already busy scientists. Thus, once the developers and I crafted label text and other elements, the curators then reviewed our work. In that sense, they were basically checking my work, and they often had great suggestions for how to explain complicated concepts and theories—it was a nice collaboration.

At the end of the day, I'm really proud of *Evolving Planet*. I've traveled to a lot of other museums around the world, and I think this exhibition is one of the, if not *the*, most comprehensive explanation of the history of life on Earth in any museum anywhere—it's one-of-a-kind.

**ITF:** As project manager, what were some of your biggest challenges?

**Tubutis:** One of the biggest challenges was protecting our unique collections. We had to build shelters for the large dinosaurs (that weren't going anywhere!) to protect them during construction. The 23 Knight murals had to be removed, cleaned, restored and reinstalled. They are very large works of art—some 25-feet long—and moving them was a challenge. Another challenge was coordinating the outside vendors and contractors who supplied us with specialized services. It was also my job to keep other Museum departments abreast of the project so that everyone could stay informed about *Evolving Planet*.

**ITF:** What do you hope people will learn and remember after seeing the exhibition?

**Tubutis:** I hope that visitors leave grasping our

main message: Evolution is a process that is ongoing—whatever has ever lived on Earth has led to the rich biodiversity we see today. At the end of the exhibition we talk about how the rate of extinction is as high today as it has ever been. Humans are in part responsible for that. We don't know what will happen next but, with or without humans, life will continue to evolve.

**Kissel:** For me, it is all about the fundamental question, "How did life and the Earth that it inhabits get to where it is today?" I think people should be curious about this subject—it's a very compelling story. I also hope that people leave *Evolving Planet* with a better understanding of the theory of evolution—whether they choose to accept it or not, we want them to understand what it is all about.

**ITF:** As scientists make new discoveries, will the exhibition change?

**Kissel:** Yes, because new discoveries and ideas will always continue to refine our understanding of Earth's past. A key objective of the exhibition's design was to account for

this progress. For example, text panels can be easily updated to incorporate new information, when necessary.

'...this exhibition is one of the, if not *the*, most comprehensive explanation of the history of life on Earth in any museum anywhere—it's one-of-a-kind.'

**ITF:** You've worked on this project for several years. Are far as your careers are concerned, what have you learned that will be helpful to you in the future?

**Tubutis:** I've learned that even with solid exhibition goals and messages guiding your work, a design will inevitably undergo many changes—undoubtedly for the better—over a five-year span.

**Kissel:** One of the greatest things a scientist can do is educate. Working so closely with the brilliant exhibition developers of *Evolving Planet* has strengthened my ability to communicate with, and therefore educate, general audiences about science.

**ITF:** What's next for both of you?

**Tubutis:** For my next project, I'm working on *Maps*, an unprecedented exhibition featuring 100 of the world's greatest maps, opening in November 2007.

**Kissel:** I'll concentrate on finishing that dissertation!



JOHN WEINSTEIN/CORBIS OUTLINE

At left: Todd Tubutis (left) and Richard Kissel discuss plans for the exhibition.

# Museum's Education Programs Enhance Understanding of Evolution

*Eduarda Briseño, Program Administrator, Field Museum Education Department*

Evolution. The word has sparked debate among school boards and legislatures across the country. The Field Museum embraces its obligation to present evolution to the public as the only scientific explanation for the origin of today's biodiversity. To help enrich this effort, the Museum's Education Department has developed a compelling slate of public and school programs designed to provide resources for families and schools on how to effectively teach evolution.



DIANE ALEXANDER WHITE

*Mara Cosillo-Starr, Field Museum resource center manager, with skulls that show human evolution.*

Our public programs, for visitors of all ages, include a robust series of lectures, workshops, performances, and gallery programs designed to enrich the Museum visitor experience. Our "Evolving Science" lecture series will feature Field Museum scientists exploring topics as diverse as evolutionary genetics, primate evolution, and the evolution of dinosaurs. A staged reading of *Inherit the Wind* will bring to life the Scopes Monkey Trial—the famous case in which a science teacher was accused of the "crime" of teaching evolution. An array of family programs will encourage children and their parents to discover the geologic timeline of the Earth, debate what killed the dinosaurs, and delight in a multitude of free gallery programs during opening weekend's "Dinosaur Discovery Days."

Our teacher and student division will offer an expanded program including new student classes that explore the Earth and its creatures, and educator workshops that allow teachers to preview the exhibition, discover links to Illinois Learning Standards, and develop focused activities they can use before, during, and after their field trip. In addition, a host of educational materials will provide visitors with tools for an in-depth exploration of evolution. A comprehensive, downloadable "Educator Guide to *Evolving Planet*" will introduce teachers to the various sections of the exhibition, provide information on how to plan field trips, and offer resources for further investigation of this topic. In addition, two specialized educator guides, focusing on teaching evolution and the importance of mass extinctions in Earth's history, will be available via our website and the Harris Loan Educational Loan Center. Educators and parents are encouraged to stop by Harris Loan to borrow Experience Boxes that allow for further exploration of dinosaurs, hominids, and geologic timelines in their classrooms and homes.

A full list of our education programs is available on the *Evolving Planet* website at [www.fieldmuseum.org/evolvingplanet](http://www.fieldmuseum.org/evolvingplanet). ITF

## **Evolving Planet Docents Help Explain Exhibition**

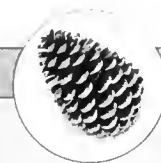
*Mary Ann Bloom, Volunteer Coordinator,  
Field Museum Human Resources Department*

Volunteer docents often will be available in *Evolving Planet* to enhance visitors' understanding of the exhibition. Our dedicated docents prepared for *Evolving Planet* by attending all-day training sessions held on nine consecutive Saturdays earlier this year! As part of the docent training, several Field Museum and University of Chicago scientists lectured about their evolution-based research.

# YOUR GUIDE TO THE FIELD

Calendar of Events for Spring 2006 March May

Inside: Exhibitions Festivals Family Programs Adult Programs



## Programs at a Glance

*Details inside!*

### Family Programs

Family Overnights 3/24, 4/14 & 5/6

Two of Us Workshops starting 3/7, 4/4 & 5/2

Create a Play in One Day! 3/11

Inherit the Wind 3/18 & 19

Mazon Creek Fieldtrip 3/25 or 4/22

What Killed the Dinosaurs? 4/22

Birth of the Earth Workshop 5/5 & 5/12

### Adult Programs

Evolving Science Lectures 3/11, 4/8, 4/29, & 5/13

Last Supper Lecture 3/25

Ozone Shield Lecture 3/25

Ancient Americas Course/Fieldtrip 4/5–5/10

Fossils Fieldtrip 5/6

Auschwitz Lecture 5/12

Bird Watching Workshop 5/13

Cultural Connections 3/18, 4/19, & 5/17

### Tutankhamun Opening

Egyptian Hieroglyphs Course 5/18–6/22

Egypt Discovery Days 5/26–29

Create a Play in One Day! 5/27

Exhibiting a Legend Lecture 5/27

### National Geographic Live! Series

Exploring Bhutan 3/14

Chasing the Tornado 3/28

Three Among the Wolves 4/25

In Search of King Tut 5/23

## Final Weeks!

*Through March 26, 2006*



# POMPEII

## STORIES FROM AN ERUPTION

Two thousand years ago a vibrant society disappeared beneath the ashes of Vesuvius. Now you can uncover its buried treasures—and its human drama—at The Field Museum.

The exhibition was organized by the Ministero per i Beni e le Attività Culturali, Soprintendenza archeologica di Pompei, Soprintendenza per i Beni Archeologici delle province di Napoli e Caserta, Regione Campania.

Presented by Harris Bank

## Featured Lecture

### The Restoration of Da Vinci's The Last Supper

*Pinin Brambilia Barcilon, Chief Curator*

Explore the controversial techniques employed to restore Leonardo da Vinci's *The Last Supper*. Barcilon will illustrate how the restorers cleaned and restored the painting according to contemporary textual descriptions, and will address the concerns of critics of the restoration. This lecture will spark the imagination of anyone who appreciates the beauty, technical achievements, and fate of Renaissance painting. Lecture will be presented in Italian, with an interpreter.

*Saturday March 25, 2pm*

**\$16, students/educators \$14, members \$12**

Special thanks to the Consulate General of Italy in Chicago and the Italian Cultural Institute in Chicago for their valuable support of these public programs.



The Field  
Museum

General Museum Information: 312.922.9410

Family and Adult Program Tickets and Information: 312.922.9410



# the history and life of our planet



Opens March 10

For the grand opening of *Evolving Planet*, we've compiled a series of great programs, from fieldtrips to lectures to workshops for the whole family. Visit this dynamic new exhibition and find out more about the history of life on Earth!

## Children's Workshop

### Create a Play in One Day!

*Foundation Theatre Group*

Put your little one in the director's chair! Children ages 5–11 will write a short dinosaur play under the tutelage of professional actors, cast it with their new friends from the workshop, create their own costumes, and perform for the general public at the Museum that same day.

*Saturday, March 11, 10am–2pm rehearsal,  
2:30 performance  
\$16, members \$12*

### The Birth of The Earth

Dive into Earth's history in two workshops focusing on the evolutionary and geologic timeline of the Earth and our region. You and your little ones will learn how it's possible that there were once icebergs in Illinois! For families with children ages 7–12.

*Fridays, May 5 and 12, 6–8pm  
\$30, members \$24*

*One session: \$15,  
members \$12*



CATHRYN C. MONTROY/AGN80729 16C

## Family Programs

### Inherit The Wind

Witness a multi-media adaptation of this famed play directed by Bernie Sahlins, co-founder of Chicago's Second City. *Inherit the Wind* brings to life the "Scopes Monkey Trial" of 1925, presenting two great lawyers arguing the case for and against a science teacher accused of the "crime" of teaching evolution.

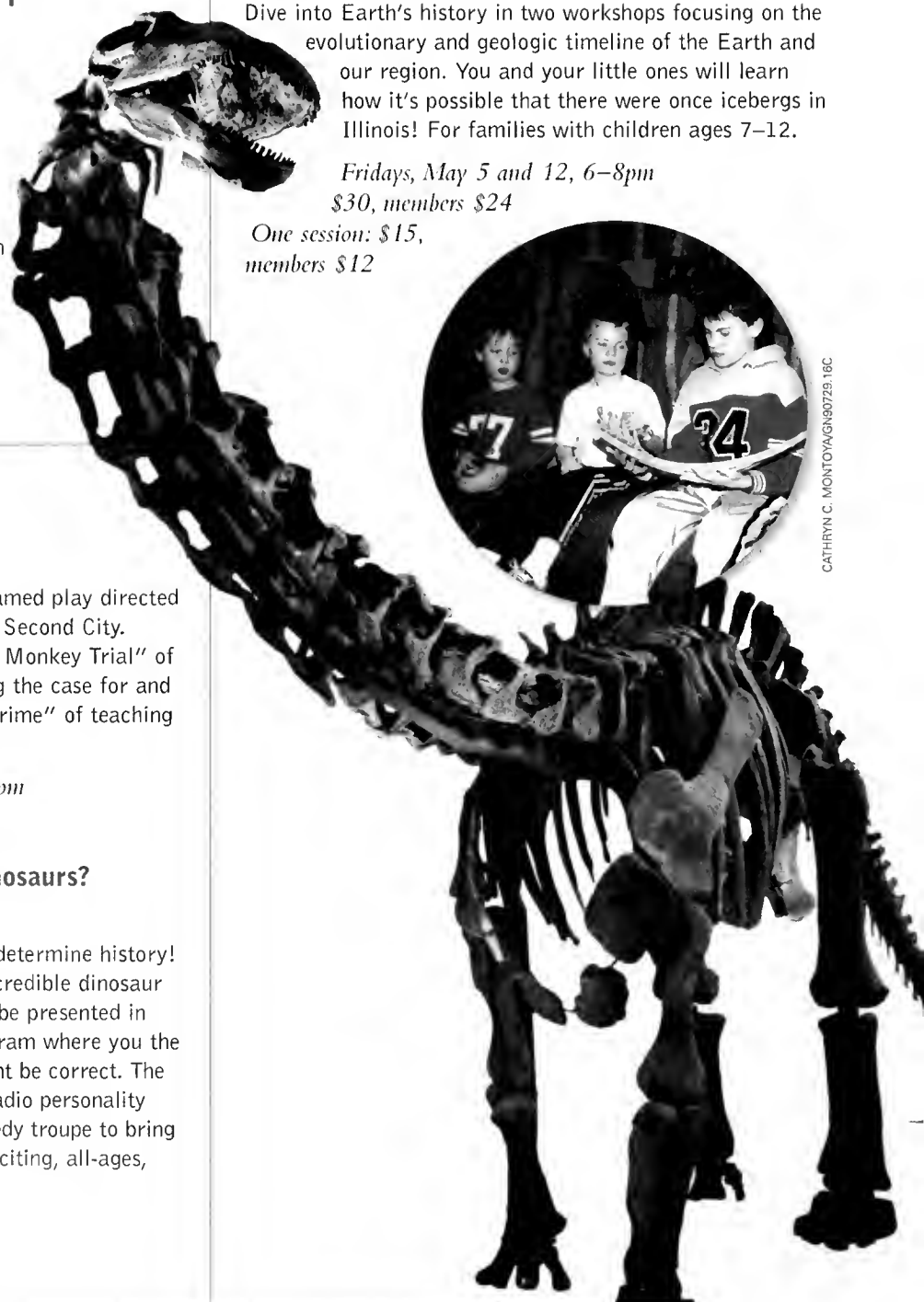
*Saturday and Sunday, March 18 and 19, 1pm  
\$16, students/educators \$14, members \$12*



### What Killed the Dinosaurs? You decide!

Families are invited to determine history! The most scientifically credible dinosaur extinction theories will be presented in this live theatrical program where you the audience will help decide which theory might be correct. The Field Museum is collaborating with WGN radio personality John Williams and the Galileo Players comedy troupe to bring dinosaur extinction theories to life in this exciting, all-ages, interactive variety show.

*Saturday, April 22, 11am  
\$16, students/educators \$14, members \$12*



## Evolving Science Lectures

### Can 200 Million-Year-Old Leaves Predict the Future for Plant Biodiversity?

*Dr. Jennifer McElwain, FM Dept. of Geology*



MARK WIDHLAW/GE086362 01D

Take a virtual expedition to chilly Greenland to see how fossil plants are helping scientists untangle the mysteries of ancient global warming trends—and helping shape predictions about the effects of future global warming on Earth's biodiversity and ecology.

*Saturday, March 11, 1:30pm*  
*Free with Museum admission*

### Primate Evolution: From Early Origins to the Neanderthals

*Dr. Robert Martin, FM Provost*

Learn about the latest issues and discoveries in primate evolution from one of the world's foremost experts. Dr. Martin will trace the origins of the primate evolutionary tree and analyze new evidence that confirms Neanderthals as a species separate from modern humans.

*Saturday, April 8, 1:30pm*  
*Free with Museum admission*

### The View from the Center of the Universe

*Dr. Joel Primack and Nancy Abrams, UC Santa Cruz*

Get an entertaining glimpse at the new pictures of the universe that are emerging from modern cosmological research. Their latest book will also be available for purchase and signing.

*Saturday, April 29, 1pm*  
*Free with Museum admission*

### Dining at the Garden of Eden: Diadectids and the Evolution of the Modern Ecosystem

*Richard Kissel, FM Exhibitions Dept.*

Travel back 300 million years to the emergence of diadectids, Earth's first herbivores, which signaled an important step in the evolution of Earth's modern ecosystems. Dissect the herbivore's roles in the larger ecosystem, and see how paleontologists interpret the diets of these and other long-extinct creatures.

*Saturday, May 13, 1:30pm*  
*Free with Museum admission*



FM/KAREN CARR

## Adult Field Trip

### Fantastic Fossils

*Dave Dolak, Columbia College*

Identify and collect fossils with the help of Museum experts. You'll travel to the world-famous Ordovician outcrop near Brookville, Indiana, where geologists have found a number of well preserved fossils from 450 million years ago! Adults only please. Please register by May 1.

*Saturday, May 6,*  
*7am–7pm*  
*\$105, members \$95*



JOHN WEINSTEIN/GE085672 2C

## Special Artists at the Field



FM/KAREN CARR

Examine the work of *Evolving Planet* illustrator Karen Carr, and learn what it takes to depict scenes of life on Earth millions of years ago. Come early, visit with the artist, and sign up for a special guided tour of the exhibition with Ms. Carr (limited to 45 participants).

*Saturday, March 11, 10am–noon, Tour: 1pm*  
*Free with Museum admission*

*Evolving Planet* is made possible by Anne and Kenneth Griffin. The Elizabeth Morse Genius Charitable Trust is the generous sponsor of *Evolving Planet's* Genius Hall of Dinosaurs.

# Family Workshops

## Two of Us

Join us in one of these four-week excursions through the wonders of The Field Museum! You and your little one will travel the Museum's exhibition halls, sing songs, hear stories, touch objects, make art projects, and enjoy snacks. Choose from one of the following sessions:

### Dinosaurs and Fossils

*Tuesdays, March 7–28, 10–11am*

### Insects and Soil

*Tuesdays, April 4–25, 10–11am*

### Native American Cultures

*Tuesdays, May 2–23, 10–11am*

*Each four-week session:*

*\$32, members \$27*

*For each 3–5 year old child with paid attendance, one adult chaperone attends free.*



## Summers on the Museum Campus

**Summer World's Tour** is right around the corner! Children ages 5–10 are invited to unearth the mysteries of King Tut at the Field, explore the

universe at the Adler Planetarium, and dive into the Great Lakes at Shedd Aquarium. Choose one of four sessions, beginning July 10. Call the Adler Planetarium at 312.322.0329 for registration information.

Too old for summer camp? Teens can get involved with the Field's **Summer Teen Volunteer Program**. Fulfill community service requirements while getting an inside look at the Museum, talking with visitors, and exploring natural history. To be considered, complete the on-line volunteer application by April 15 or call 312.665.7503 for more information.



## Adult Lecture

### Is Earth's Ozone Shield Recovering?

*Dr. Paul A. Newman, NASA Goddard Space Flight Center, Dr. Stephen Andersen and Dr. Drusilla Hufford, Environmental Protection Agency*

Despite ongoing expectations that the ozone hole will recover, we have yet to see evidence that a recovery is underway. Explore the important issues that have resulted from climate change during this timely lecture, the second in a series of forums organized by the Adler Planetarium. This forum will inspect the history of the ozone hole, examine its potential effects on humanity, and lay out plans for present and future recovery events.

*Saturday, March 25, 10am–noon*

*Free with Museum admission*

*To register or for more information visit [www.adlerplanetarium.org/climatechange](http://www.adlerplanetarium.org/climatechange).*

## Adult Course/Fieldtrip

### Discover the Ancient Americas II

*Dr. Maxine McBrinn, EM Anthropology Dept.*

Delve into the fascinating world of the ancient Americas, and visit surviving relics. Building on the fall 2005 class (not a prerequisite), this multi-part adult course will explore the history of the people of the Americas, and give you a preview of the new Ancient Americas exhibition opening in 2007. You'll finish the course by traveling to Cahokia Mounds State Park, center of the Mississippian world and the largest center of population in prehistoric native America north of Mexico City.



FM727 8854

*Wednesdays, April 5–May 10, 6–8:30pm*  
*Course and Fieldtrip: \$145, members \$130*  
*Field trip only: Saturday, June 3, 6am–8pm*  
*\$85, members \$75*

Below is a calendar of current and upcoming temporary exhibitions. Some dates may change. Visit our website at [www.fieldmuseum.org](http://www.fieldmuseum.org) or call 312.922.9410 as the date of your visit nears.

**Tutankhamun and the Golden Age of the Pharaohs**  
 May 26, 2006–January 1, 2007

**Jungles**  
 Through March 5

# Family Overnight

## Dozin' With The Dinos

Sue the T. rex is having a sleepover! Join us for a night of family workshops, tours and performances. Explore ancient Egypt by flashlight, prowl an African savannah with man-eating lions and take a stroll through the Royal Palace in Bamun, Africa. Then spread your sleeping bag amidst some of our most popular exhibitions. The event includes an evening snack and breakfast.

*Fridays, March 24, April 14, and Saturday May 6*  
*5:45pm until 9am the following day*  
*\$47, members \$40*



CATHRYN C. MONTOYA/GN90733 6AC

# Adult Workshop

## Bird Watching on the Museum Campus

*Dr. Dave Willard, FM Division of Birds*

Focus a stroll through the beautiful Museum Campus by looking for birds with a Museum bird expert. See a small snapshot of the more than 100 different bird species that migrate through the wooded and grassy areas of Chicago during the month of May.



*Saturday, May 13, 8-10am*  
*\$15, members \$12*

JOHN WEINSTEIN/GN94284 1C

# Family Field Trips

## Fossil Hunt at Mazon Creek

*Dave Dolak, Columbia College*

Do you like to hunt fossils? Come with us to the world-famous Mazon Creek site, and discover what Illinois was like more than 300 million years ago! Plan on a one-quarter mile walk to fossil locations. For families with children ages 8-17.

*Choose one Saturday: March 25 or April 22, 8am-3pm*  
*\$40, members \$30*



# Cultural Connections

Join an intercultural dialogue among cultural centers and museums around the Chicago region. Programs include a one-hour presentation focusing on this year's theme, *The Language of Looks*, followed by lively discussion over a meal about the role that appearance plays in communicating identity and values. For more information, call 312.665.7474, or visit [www.fieldmuseum.org/ccuc](http://www.fieldmuseum.org/ccuc).

*March 18: Mirror, Mirror On The Wall...How Am I Perceived By All?*

*April 19: Traditional Yet Contemporary*

*May 17: Beauty In Action*

Cultural Connections has received generous support from The Institute of Museum and Library Services, Kraft Foods, Polk Bros. Foundation, Chase, Chicago Public Schools' Office of Language and Cultural Education, Richard H. Driehaus Foundation, Illinois Humanities Council, and Charles and M.R. Shapiro Foundation.



KIMBERLY MAZANEK/GN80782 099D

**Pompeii: Stories from an Eruption**  
Through March 26

**Dinosaur Dynasty: Discoveries from China**  
Through April 23

# TUTANKHAMUN

## AND THE GOLDEN AGE OF THE PHARAOHS

May 26, 2006 – January 1, 2007

Take part in the first of many education programs designed to help you further explore this exciting exhibition.

### Emily Teeter, Egyptologist

Take a crash course in Egyptian hieroglyphs! You'll get an introduction to the texts that commonly appear on objects like sculptures of royalty and everyday artifacts. Learn to translate the meaning of these texts, using the collections of the Oriental Institute and The Field Museum as your guides. The course includes a "pop quiz" on the inscriptions found in the Tutankhamun exhibition.

Thursdays, May 18, 25, and June 1 at OI, 7–8:30pm

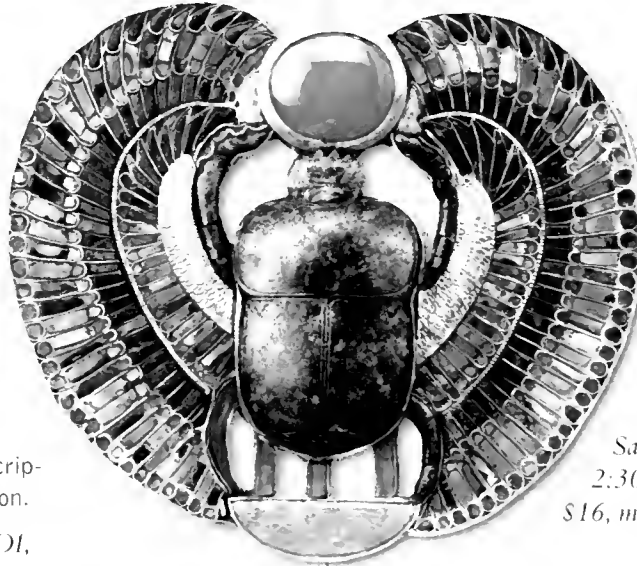
Thursdays, June 8 and 22, 7–8:30pm, and Saturday, June 24, 10:30am–noon at FM

Six session course: \$214, OI and FM members \$184 (Note: There will be a small materials fee for a packet of handouts and readings to be provided by the instructor.)

To register, please contact Oriental Institute Museum Education at 773.702.9507, or register online at the Oriental Institute website: [www.oi.uchicago.edu](http://www.oi.uchicago.edu).

Get some hands-on experience with ancient Egypt! Participate in special Interpretive Station activities—families can play the giant Senet Game, see their name in hieroglyphs, or help construct a giant pyramid.

Friday–Monday, May 26–29, 10am–2pm  
Free with Museum admission



### Foundation Theatre Group

Put your little one in the director's chair! Children ages 5–11 will write a short Egypt-themed play under the tutelage of professional actors, cast it with their new friends from the workshop, create their own costumes, and perform for the general public at the Museum that same day.

Saturday, May 27, 10am–2pm rehearsal,  
2:30 performance  
\$16, members \$12

### David Silverman, Exhibition Curator

Follow the legend of King Tutankhamun back nearly 100 years, from the discovery of his extraordinary tomb to the treasures of the current exhibition. The curator of both exhibitions (1977 and today) will talk about the excavation of the tomb and the subsequent exhibitions that sparked Egyptomania in the US. Regain a sense of nostalgia about the 1977 exhibition and discover the new technologies that have made this new gathering of artifacts all the more important.

Saturday, May 27, 2pm  
\$16, students/educators \$14, members \$12

An exhibition from National Geographic. Organized by Arts and Exhibitions International and AEG Exhibitions in association with The Supreme Council of Antiquities of Egypt and The Field Museum.

Tour Sponsor: Northern Trust  
Chicago Sponsor: Exelon, Proud Parent of ComEd



**The Auschwitz Album: The Story of a Transport**  
Through June 4

**Transforming Tradition: Pottery from Mata Ortiz**  
Through May 31



# NATIONAL GEOGRAPHIC *LIVE!*

Chase a tornado, observe wolves in the Arctic, and explore ancient Egypt in our fifth year of National Geographic Live! presentations. Get your tickets early to see the best photographers, explorers, and conservationists bring their dramatic adventures to The Field Museum.

## Exploring Bhutan

*Michael Hawley, Computer Scientist and Explorer*

Jump into the mind of one of the world's most visionary thinkers who is changing the way we think about sharing and utilizing information. A real renaissance man, Hawley will take you on a visual odyssey across Bhutan with vibrant photographs from his recently published book on the Himalayan kingdom. After the presentation, take a closer look at the book—the largest ever published—for yourself!

COURTESY MICHAEL HAWLEY

*Tuesday, March 14, 7:30pm*

## Chasing the Tornado

*Tim Samaras, Severe-Storm Researcher*

Follow the winding path of some of Earth's most destructive natural phenomena. You'll hear some of Samaras' harrowing stories of storm chasing in tornado country, and how he is carefully engineering probes that will teach us more about the dynamics of twisters.

*Tuesday, March 28, 7:30pm*

BILL THAYER

## Three Among the Wolves

*Helen Thayer, Explorer*

Walk in the way of the wolf with Helen Thayer and Charlie, her half-dog, half-wolf companion. Thayer will recount the extraordinary education she and her husband received living among packs of wolves in the Canadian Yukon and Arctic, using Charlie as an interpreter between wolf and man.

*Tuesday, April 25, 7:30pm*

## In Search of King Tut

*Zahi Hawass, Egyptologist*

Get a first-hand look at the CT scans and other investigations being performed on Tutankhamun and other ancient mummies of Egypt. Dr. Hawass is leading an international team of scientists in this provocative look at one of antiquity's most enduring mysteries.

*Tuesday, May 23, 7:30pm*

*Note: Tickets for this presentation in James Simpson Theatre are sold out, but additional tickets are now on sale for guests who would like to watch a live video feed of Dr. Hawass's presentation in nearby Montgomery Ward Lecture Hall. These tickets are \$16, members \$12, students/educators \$10, and are only available by phone, at 312.665.7400.*

KENNETH GARRETT

JIM WEEB

## Ticket Information

Call 312.665.7400 or visit [www.nationalgeographic.com/nglive](http://www.nationalgeographic.com/nglive) to purchase tickets. A limited number will be available onsite the day of the event starting at 5:30pm, but we recommend reserving tickets in advance since this series sells out.

Also, a series subscription makes a great gift! We'll send the tickets along with a personalized gift card at your request.

## Individual Events

*Patron (reserved seating)* \$30; TFM, NG and Geographic Society of Chicago members \$25.

*General admission:* \$24; TFM, NG and Geographic Society of Chicago members \$22; students \$15.

**Educators**—Student programs, teacher workshops, and online lesson plans are provided in conjunction with the series. For more information, go to [nationalgeographic.com/nglive](http://nationalgeographic.com/nglive) or call 312.665.7500.

National Geographic Live! educational programs are made possible by the generous support of Plum Creek Timber Company.

# Investigate historic tragedies and ancient fossils

## The Auschwitz Album: The Story of a Transport

*Through June 4*

Striking black-and-white photographs taken by Nazi S.S. officers provide the only visual record of the arrival and imprisonment of Hungarian Jews in the Auschwitz Birkenau concentration camp.

### Free Lecture: Auschwitz: The Making and Unmaking of Hell

*Dr. Robert Jan van Pelt, School of Architecture, University of Waterloo*

Find out more about the history of this infamous camp. Dr. van Pelt will use the exhibition photographs—and more—to describe a day in the life of Auschwitz, situating the human experience within the camp's larger history and purpose.

*Friday, May 12, 1pm*

*Free with Museum admission*

This exhibition was created by Yad Vashem, The Holocaust Martyrs' and Heroes' Remembrance Authority in Israel. The Field Museum presentation is made possible by the American Society for Yad Vashem.

Generous support has been provided by the Crown Family.



## Dinosaur Dynasty: Discoveries from China

Don't miss your chance to see these remarkable dinosaurs before they make their way back to China!

This exhibition was produced by DinoDon Inc., in cooperation with Beringia Ltd. and the Inner Mongolian Museum.



Visit [www.fieldmuseum.org](http://www.fieldmuseum.org)



Field Museum visitors can park in Soldier Field's parking garage. Visit [www.fieldmuseum.org](http://www.fieldmuseum.org) for information on parking lots/rates, free trolleys and public transit.

9am–5pm daily. Last admission at 4pm. Please note the Museum closes at 5pm even when an evening event is scheduled. Event participants will be asked to leave the building until 30 minutes before their event begins.

Member passes can be reserved through the membership department (312.665.7705) or picked up at the membership services desk. For non-members, The Field Museum's gold pass, which includes general admission plus one special exhibition, ranges in price from \$8 to \$19, depending on your age category and whether you are a Chicago resident. Please bring your ID to receive the appropriate ticket price.

Tickets are available at the Museum's admission desks, or in advance via [www.fieldmuseum.org](http://www.fieldmuseum.org) or 866.FIELD.03. For all admission and ticket details, visit [www.fieldmuseum.org](http://www.fieldmuseum.org).

Visitors using wheelchairs or strollers may be dropped off at the new east entrance. Handicapped parking and wheelchairs are available on a first-come, first-served basis. Call 312.665.7400 to check on the accessibility of programs that take place outside of the Museum.

312.922.9410 or [www.fieldmuseum.org](http://www.fieldmuseum.org)

Rendering by Karen Carr

# THE GIANT SHORT-FACED BEAR

One of the most spectacular fossils in the *Evolving Planet* exhibition is that of a giant "short-faced" bear. The bear, *Arctodus simus*, weighed up to one ton and (when standing on all four limbs) was about five feet tall at the shoulder, making it one of the largest terrestrial mammalian carnivores the world has ever known. Its nickname comes from the short snout that made its face look almost cat-like.

Its large canine teeth were similar to those of today's living cats and were capable of delivering an exceptionally strong bite. Because of its meat-shearing teeth and powerful jaw muscles, scientists think the short-faced bear may have been more carnivorous than living bears, with the exception of the polar bear. Unlike today's bears, the short-faced bear had long, slender limbs and walked flat-footed, paws pointed forward (not inward, as today's bears walk). The limb structure tells scientists that short-faced bears could probably run fast, and the bear's height would have helped it see over tall grass and other vegetation—important for hunting large herbivores such as camels, bison and horses.

The habitat of the giant short-faced bear was widespread over North America—from Alaska and Canada into central Mexico. Humans may have helped cause the extinction of the short-faced bear about 12,000 years ago by competing more successfully for the same prey. Some remains of this powerful carnivore have been found at ancient sites containing human artifacts and remains.

*This Scientist's Pick was chosen by Richard Kissel, exhibition content specialist for Evolving Planet.*

*Rearing up on its back legs, the short-faced bear in Evolving Planet is about 12 feet tall.*

# EVOLVING PLANET FEATURES THE WORK OF THESE FIELD MUSEUM SCIENTISTS

Greg Borzo, Media Manager, Scientific Affairs

**Robert D. Martin, PhD**, Anthropology Department Curator,  
Biological Anthropology and Provost, Academic Affairs

Dr. Martin has devoted his career to exploring the evolutionary tree of primates. In addition to our own species, *Homo sapiens*, the order Primates contains about 350 other living species, from lemurs to monkeys to apes. In his quest to achieve a reliable reconstruction of primate evolutionary history, Dr. Martin has studied an array of characteristics of living primates, including anatomy, physiology, chromosomes and DNA. He has been particularly interested in the brain and reproductive biology, as these systems have been of special importance in primate evolution. Additionally, there are almost 500 primate fossil species dating back 55 million years. For skeletal features, it is possible to include the fossil evidence, and thus geological time, in the picture. By studying living primates in the forests of Africa, Madagascar, Brazil, and Panama, Dr. Martin has also been able to include behavior and ecology in an overall synthesis.



**In his own words:** *Understanding primate evolution is an essential basis for interpreting the special case of human evolution. Without this secure foundation, it is exceedingly difficult to produce convincing explanations for the evolution of our many special features. If we only compare humans and our closest relatives, the great apes, any conclusions that we draw have no generality and are not testable.*

*One good illustration of the need for broad comparisons is provided by investigations of the timescale for primate evolution. Although the earliest known primate fossils are 55 million years old, our statistical analysis allowing for gaps in the fossil record indicates that primates actually diverged from other mammals about 90 million years ago. When this result is applied to human evolution higher up in the tree, it emerges that our lineage probably branched away at least eight million years ago, earlier than previously thought.*

**Lance Grande, PhD**, Geology Department Curator, Fossil Fishes  
and Vice President and Head of Collections and Research

Dr. Grande is trained as a biologist and a geologist. He studies the comparative osteology (structure and function of bones), ontogeny (developmental history) and biogeography (geographic distribution through time) of fossil and living fishes. His work, largely funded by the National Science Foundation, has focused on the ray-finned fishes (*Actinopterygii*), a group containing half of all known vertebrate animals. Dr. Grande is also interested in the philosophy and application of methods used to interpret evolutionary relationships and Earth history. Some of the fish groups on which he has conducted major studies include the *Siluriformes* (catfishes), *Clupeomorpha* (herring and herring-like fishes), *Osteoglossomorpha* (bony-tongues) and several more primitive groups (gars, bowfins, sturgeons, and paddlefishes). Dr. Grande is also interested in the origin and evolution of the modern North American freshwater fish fauna as well as in developing new techniques for preparing fish fossils so their skeletons can be more productively used for detailed comparisons with living fishes. Every year he conducts fieldwork in the famous Green River Formation in Wyoming, where he works in some of the world's most productive fossil beds and often teaches a field course called *Stones and Bones* through the Graham School at the University of Chicago. The Green River Formation contains a rich fossil bonanza comprised of a beautifully preserved, extinct, 52-million-year-old tropical lake community containing millions of fossil organisms, from microscopic bacteria and insects to 13-foot-long crocodiles and palm trees.



**In his own words:** *It is both an honor and a terrific opportunity to oversee the largest, most diverse fossil fish collection in North America, containing more than 35,000 specimens—from single fish skeletons to large slabs of rock with more than 200 individual fish. As a biologist, I also work extensively with living fishes. In addition to our huge fossil fish collection in the Geology Department, The Field Museum has the good fortune of having over two million recent fishes in the Zoology Department, and of being located near the Shedd Aquarium with all its wonderful resources. Today there is no better place in the world to study the evolution and biodiversity of fishes than The Field Museum.*

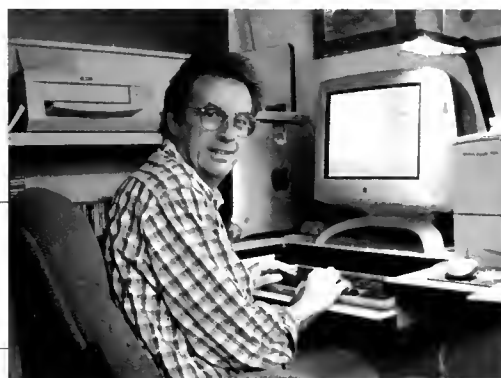


**Olivier Rieppel, PhD**, Geology Department Curator, Fossil Amphibians and Reptiles

During the Mesozoic, also called the “Age of Reptiles,” a number of reptile lineages secondarily adapted to a life in the sea. Over the past few years, Dr. Rieppel has pursued the global revision of Triassic stem-group Sauropterygia, marine reptiles that later gave rise to the more widely known plesiosaurs, pliosaurs and elasmosaurs of the Jurassic and Cretaceous. This work provided the basis for the ongoing collaborative research program with faculty and students of the Institute of Vertebrate Paleontology and Paleoanthropology in Beijing, focusing on new collections of Triassic marine reptiles from southern China. These new collections require taxonomic work not only on sauropterygians, but also on other marine reptiles such as protorosaurs. The Triassic record of marine reptiles is rich and diverse, and allows the study of broad evolutionary patterns as originally terrestrial lineages adapted to marine habitats.

More recently, Dr. Rieppel became involved with research on the origin of snakes. This collaborative research seeks to integrate paleontology, comparative morphology and molecular systematics. The origin of snakes is a longstanding problem in the evolution of reptiles that still awaits a satisfactory resolution. It is now embedded in a broad-scale investigation of the evolutionary history and relationships of squamate reptiles (snakes, worm lizards and other lizards) as part of the Tree of Life program sponsored by the National Science Foundation.

**In his own words:** *Researching the evolution of various reptile lineages and reconstructing their phylogenetic past raises a number of theoretical and methodological issues that require philosophical analysis. I take an active interest in the history and philosophy of comparative biology.*



MARK WIDHALM/GN90294 55D

**Peter Makovicky, PhD**, Geology Department Curator, Dinosaurs

Dr. Makovicky studies the evolutionary history of dinosaurs. His research is particularly focused on small theropods (carnivorous dinosaurs) and how they evolved into living birds. The theropods closely related to birds had wing feathers, brooded their nests, and were small animals that were virtually indistinguishable from the earliest bird, *Archaeopteryx*, in all but a few features. Dr. Makovicky also focuses on the horned dinosaur group Ceratopsia, which includes animals such as *Triceratops* and *Protoceratops*. He has conducted fieldwork in Wyoming, China, India, and Argentina, and has described six new dinosaur species with colleagues from various parts of the world.

**In his own words:** *In 1995, we had strong evidence that birds evolved from small, carnivorous dinosaurs like Velociraptor. Nevertheless, there was still a gap between the anatomy of birds and non-avian theropods. There was also much debate regarding how many of the traits that characterize birds, such as feathers, flight ability, and nest care, may have evolved. In the intervening decade, new theropod discoveries from around the world have provided amazing answers to many of these questions.*



*Below: Painting of Sue by John Gurche.*





**Meenakshi Wadhwa, PhD, Geology Department Curator, Meteorites**

Meteorites are rocks that have fallen to the surface of the Earth from interplanetary space. They are “space probes” that allow us to explore other worlds. While most meteorites originated from asteroids, scientists believe a few were ejected by large impacts on the surfaces of the moon and Mars. Dr. Wadhwa studies the chemistry of these “rocks from space” to understand how and when our solar system and the planets within it were formed.

To do this work, she has established a state-of-the-art geochemistry and geochronology laboratory at The Field Museum. Dr. Wadhwa is a team member of Genesis, the NASA spacecraft mission that brought back samples of solar wind (streams of particles flowing outwards from the sun). She will be studying these samples to understand the chemical composition of the sun, which makes up more than 99 percent of the mass of the solar system. She is also involved in future NASA missions to send rovers to Mars that will help us to understand the history of water on that planet and whether life ever evolved there.



MARK WIDHALM/GN90414.09D

**In her own words:** *What most people don't realize is that much of what we know about the origin of the solar system and the Earth, and the atoms that make up everything around us, comes from studying meteorites. Meteorites and other samples brought back from spacecraft offer us a unique opportunity to understand the inner workings of the physical universe around us.*

*Top: A Charles R. Knight mural in Evolving Planet.*

**John R. Bolt, PhD, Geology Department Curator, Fossil Amphibians and Reptiles**

The origin and early evolution of tetrapods is one of Dr. Bolt's main research interests. Tetrapods are four-limbed vertebrates, a category that includes humans. The earliest known tetrapods are from the Late Devonian, about 380 million years ago. Devonian tetrapods are found in fewer than a dozen localities worldwide. Tetrapod localities from the Mississippian (359 to 318 million years ago) are also rare, with only about two dozen localities worldwide. Dr. Bolt is currently studying Mississippian tetrapods that he collected from a locality in southeastern Iowa.

Preservation of many of these specimens is very good, and in some cases exceptional. Preservation quality is particularly important in the case of the earliest tetrapods. These specimens have turned out to show many unexpected features which would have been difficult to interpret from poorly preserved material. Taken together, the increasing numbers of specimens from the Devonian and Mississippian are finally beginning to give scientists a look at the first tetrapods.



**In his own words:** *The earliest tetrapods would have been expected to be primitive, and this has turned out to be the case. Nevertheless, something that has impressed me about Mississippian and Devonian tetrapods is just how primitive they were. It is often helpful to think of them as highly evolved sarcopterygian fish. But whether you view them from a fish perspective or a tetrapod perspective, one of the best things about studying early tetrapods is the way it forces you to change your expectations.*

**Peter Wagner, PhD, Geology Department Associate Curator, Fossil Invertebrates**

Snails (gastropods) are one of the most successful and diverse animal groups. Because of their hard shells, they have left a dense fossil record. Dr. Wagner studies shells of gastropods and related mollusks from about 500 to 350 million years ago in order to test ideas about what caused different long-term evolutionary patterns. For example, he studies the long-term diversification and/or elimination of some shell types, how rapidly new shell forms and/or new species appear, and which survive or die over mass extinction events.

Dr. Wagner has shown that snail shells changed more frequently and more drastically early in gastropod history and particular types of shells evolved far more frequently than expected given the range of possible shell types. In addition, he has shown that many now extinct shell types once were common and evolved frequently. Wagner's research is funded by the National Science Foundation and has included fieldwork in the Australian outback as well as visits to museums across the globe.

**In his own words:** *Gastropods have a much denser fossil record than other animal groups do. My work involves combining the data I collect with computer programs I write in order to separate the hypotheses that might work from those that clearly do not.*



JOHN WEINSTEIN/GN90709.01D



**Jennifer McElwain, PhD**, *Geology Department, Associate Curator, Paleobotany*

Dr. McElwain is interested in the interactions between plant biodiversity and climate change in the geological past. Specifically, she studies how changes in greenhouse gasses, such as carbon dioxide, can directly and indirectly influence the relative abundances and diversity of different plants and the functioning and ecology of ancient ecosystems. She studies three important intervals in Earth history: the Triassic-Jurassic boundary (200 million years ago); the Early Toarcian (178 million years ago); and the Cenomanian-Turonian boundary (90 million years ago). Each of these intervals is characterized by major extinctions which reshaped ecosystems. Understanding how global warming in the past influenced the ecology and biodiversity of ancient ecosystems may help us in our quest to conserve biodiversity in the future by elucidating the types of plants that are most sensitive to changes in the climate system.

**In her own words:** *Analyses of the fossil record enable us to track the ecological dominance of different plant groups through time and assess how climatic changes and changes in atmospheric composition affected these patterns.*



MIHAI POPA



JOHN WEINSTEIN/GEO85637C



JOHN WEINSTEIN/GEO85637C

**Scott Lidgard, PhD**, *Geology Department Associate Curator, Fossil Invertebrates*

Dr. Lidgard is a paleoecologist, a scientist who studies interactions between ancient organisms and their environments. He is currently studying ecological forces such as predation as possible drivers of large-scale trends in the history of life. His work focuses on bryozoans, marine invertebrates that live on the bottom of the sea. They form colonies in an enormous variety of shapes, with as few as two or as many as two million individuals. The complexity, colonial nature, and excellent fossil record of bryozoans make them ideal subjects for studying general patterns of ecology and evolution. Dr.

Lidgard looks at the precise timing and co-occurrences of predators and prey in the fossil record, the appearance and spread of skeletal armament among fossil bryozoans, and the mechanisms of attack and dietary specialization of bryozoan consumers alive today. By combining these different perspectives, he tests different hypotheses about the role of predation in the evolutionary process.

*Above: The coal forest in Evolving Planet.*

**In his own words:** *We know from countless field studies and experiments that predation is an important force molding the bodies and life histories of organisms. There is also a wealth of evidence that predation is one factor structuring the distribution and abundance of organisms, and for some species causing extinction in ecological time. Yet scientists continue to debate how predation correlates with large-scale trends in the diversity and forms of organisms over millions of years on a global scale.*

Use the software which allows them to collaborate more efficiently.

Michael Gorriarán, general manager for Microsoft's U.S. Enterprise Sales Operations, said, "The Field Museum works tirelessly to help educate and inspire citizens throughout Chicago, helping them to more fully realize their potential in life."

*Above: Michael Gorriarán (left), and Jim Croft stand in front of the Museum's main computer server.*

The new 1997 model is covered in  
 chrome, chrome, chrome. The chrome  
 is everywhere and it's everywhere  
 on and around the car. It's  
 chrome on the hood, chrome on the  
 roof, chrome on the sides, chrome  
 on the wheels, chrome on the  
 door handles, chrome on the  
 door hinges, chrome on the  
 door latch, chrome on the door  
 latch, chrome on the door latch,



# IN THE FIELD

SPECIAL  
EARLY  
EDITION!  
Summer 2006

THE FIELD MUSEUM'S MEMBER PUBLICATION

## TUTANKHAMUN

AND THE GOLDEN AGE OF THE PHAROHS



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Nancy O'Shea  
The Field Museum

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**COVER:** This miniature  
coffinette held the liver of  
King Tut. It measures about  
15.5 inches in length.

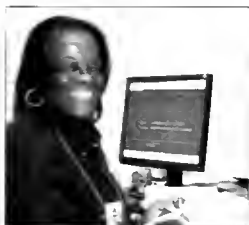
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ANTIKENMUSEUM, BASEL UND  
SAMMLUNG LUOWIG



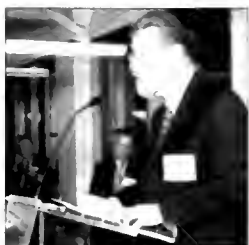
ANDREAS F. VOEGELIN



JAMES L. PHILLIPS, PhD



LYSETTE BELL



MICHAEL O. DILLON

# 2

*Tutankhamun and the Golden Age of the Pharaohs* presents more than 130  
ancient artifacts excavated from the tombs of Tutankhamun and members of his  
family. *Left: The gilded funerary mask of Tjuya, great-grandmother of King Tut.*

# 4

Anthropologist James L. Phillips, PhD (pictured left), discusses the Tut exhibition  
and why the culture of ancient Egypt continues to fascinate us.

# 16

Meet the public face of the Museum. Seven employees from  
our Membership, Guest Relations and Protection Services Departments  
describe the challenges and the rewards of their jobs. *Left: Lysette Bell's  
smile makes members feel welcomed.*

# 18

The Field Museum's new John G. Searle Herbarium is a state-of-the-art  
facility that houses over 2.7 million botany specimens. *Left: Field Museum  
Botany Chair Michael O. Dillon at the opening of the new herbarium.*



## Museum Campus Neighbors

**Adler Planetarium** The whole family will  
thrill to the excitement of the Adler's new interactive  
sky show, *Egyptian Nights: Secrets of the Sky Gods*.  
The fun continues in the digital StarRider Theater  
with *Stars of the Pharaohs* (May 26 through Jan. 1,  
2007). Watch our website this summer for informa-  
tion about an upcoming exhibition featuring NASA's  
Gemini 12 space capsule. Captain James A. Lovell,  
Jr. and Dr. Edwin "Buzz" Aldrin flew Gemini 12,  
the final mission of the Gemini program, for three  
days in November, 1966. For more information,  
visit [www.adlerplanetarium.org](http://www.adlerplanetarium.org) or call  
312.922.STAR (7827).

**Shedd Aquarium** Do you believe in dragons?  
You will when you meet the eight-foot, 130-pound  
Komodo dragon at Shedd Aquarium's new special  
exhibition, *Lizards and the Komodo King*. This is  
the first time that a live Komodo dragon—the world's  
largest lizard species—has ever been displayed in  
Chicago. But there's more! Explore the dizzyingly  
diverse world of lizards, from gravity defying geckos  
and quick-change chameleons to water skimming  
basilisks and a slow moving, venomous Gila monster—  
more than 30 species. *Lizards and the Komodo King*  
runs through Feb. 28, 2007. For more information,  
visit [www.sheddaquarium.org](http://www.sheddaquarium.org) or call 312.939.2438.

The Field  
Museum

1400 South Lake Shore Drive  
Chicago, IL 60625-2496  
312.922.9410  
[www.fieldmuseum.org](http://www.fieldmuseum.org)

The Field Museum salutes  
the people of Chicago for their  
long-standing, generous support  
of the Museum through the  
Chicago Park District.





# The Golden Age of the Pharaohs

Our relationship with King Tutankhamun goes back 44 years, to a month-long exhibition in 1962 co-sponsored by The Field Museum and the University of Chicago's Oriental Institute. The show included 31 artifacts from Tut's tomb and three from the tombs of other kings. It attracted 125,000 visitors and helped raise money to save Egyptian monuments from the waters of the Nile River after construction of the Aswan Dam. In 1977, we hosted a larger and longer-running show of Tut's treasures: 55 dazzling artifacts that reignited "Egyptomania." That exhibition, also the result of a partnership between the Oriental Institute and The Field Museum, drew over 1.3 million visitors during its four-month Chicago run.

We are now ready to introduce Tut and his royal family to a new generation of Museum visitors with the May 26 opening of *Tutankhamun and the Golden Age of the Pharaohs*. A portion of the revenue generated from this exhibition will go

toward building the new Grand Egyptian Museum in Cairo, overlooking the pyramids of Giza. The museum will not only take visitors on a voyage through one of the ancient world's most fascinating cultures, it will also preserve priceless artifacts

spanning 7,000 years of Egypt's history, including the complete Tutankhamun collection. Those of you who have traveled to Egypt know that this conservation effort is crucial and overdue. The Field Museum is proud to help.

*Tutankhamun and the Golden Age of the Pharaohs* once again brings us together in partnership with the Oriental Institute. To coincide with our exhibition, the Oriental Institute Museum is showing 50 photographs of Howard Carter's excavation of King Tut's tomb in the exhibition, *Wonderful Things! The Discovery of the Tomb of Tutankhamun: The Harry Burton Photographs* (May 23 through Oct. 8). The OI Museum is also highlighting objects in its permanent galleries that are contemporary with King Tut and is offering many educational programs, a complete list of which can be found on the website [www.oi.uchicago.edu](http://www.oi.uchicago.edu).



© KENNETH GARRETT

The Field Museum has long showcased Egyptian treasures and educated the public about their significance. The permanent exhibition, *Inside Ancient Egypt*, is among our most popular. In the past

five years, we have presented two outstanding temporary exhibitions: *Cleopatra: From History to Myth*, and *Eternal Egypt: Masterworks of Ancient Art from the British Museum*. We have forged relationships with curators and Egyptologists from around the globe, including the Secretary General of Egypt's Supreme Council of Antiquities, Zahi Hawass, PhD, who will attend the opening events for *Tutankhamun* and give a keynote address here on May 23.

Finally, just in time for the opening of *Tutankhamun*, we welcome our new Director of Membership, Michelle Clayton. Michelle previously headed the membership department at the Lincoln Park Zoo and has solid experience working in Chicago's educational community.



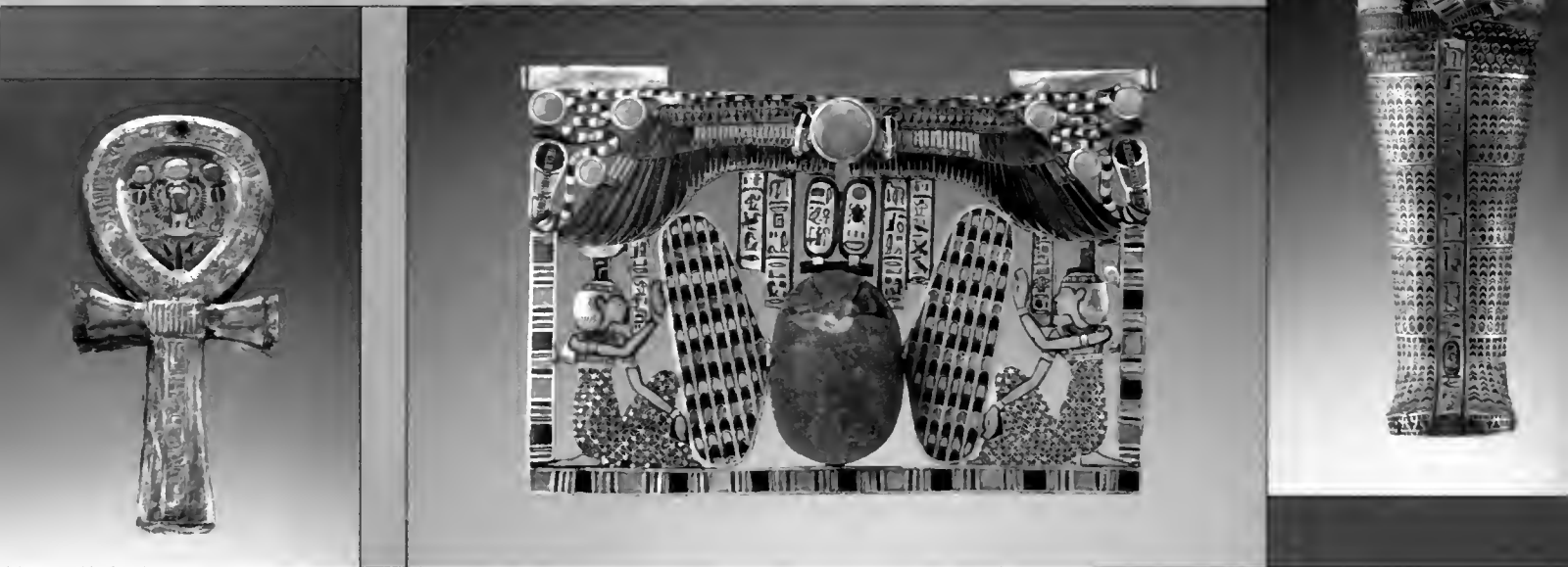
DIANE ALEXANDER WHITE

Above: This photo of Howard Carter, who discovered Tut's tomb in 1922, is part of a special exhibition at the Oriental Institute (May 23–Oct. 8).

Right, top: Archaeologist Zahi Hawass, Secretary General of Egypt's Supreme Council of Antiquities.

Right, bottom: Our new Director of Membership, Michelle Clayton.

**John W. McCarter, Jr.**  
President and CEO



# Tutankhamun

## and the Golden Age of the Pharaohs

When British archaeologist Howard Carter uncovered the remarkably preserved tomb of Tutankhamun in 1922, he created a worldwide sensation. When the boy king's riches toured the world in the 1970s, the term "blockbuster exhibition" was born.

Now, *Tutankhamun and the Golden Age of the Pharaohs* (May 26 through Jan. 1, 2007) offers Field Museum visitors a chance to see fabulous new treasures and enter the world that gives them meaning: 250 years that marked the pinnacle of ancient Egypt's culture, wealth, and imperial power.

As those who saw the earlier exhibition can attest, coming face-to-face with the treasures of King Tut is an encounter not soon forgotten. The new exhibition, twice the size of the original, will feature more than 130 ancient artifacts—of gold and silver, jewels and semi-precious stones, alabaster and gilded wood—excavated from the tomb of Tutankhamun and other royal tombs in the Valley of the Kings.

"Tutankhamun's tomb was a spectacular discovery—untouched since antiquity," said James L. Phillips, PhD, acting curator of the Near East and North Africa at The Field Museum and professor of anthropology at the University of Illinois, Chicago. More than 5,000 beautifully preserved artifacts were found in Tut's tomb, and the 50 selected for this exhibition—along with more than 70 from other royal tombs—are among the most breathtaking objects of ancient Egypt. Only a few of these were in the original exhibition, and many have never before traveled outside Egypt.

Northern Trust is the tour sponsor of this exhibition. Northern Trust's William A. Osborn, Chairman, said, "We are proud to help bring the treasures of King Tutankhamun back to the U.S." Exelon Corporation is the Chicago Sponsor, and the company's Chairman, John W. Rowe said, "Exelon is proud to be a part of this unique exhibition that opens the doors to an astonishing figure of the golden age."

The exhibition's dazzling artifacts include a gold diadem, inlaid with semi-precious stones, that graced the boy king's head in life and death; a miniature gold coffin, in Tut's image, that held his liver; and a gold dagger, wrapped with his mummy to protect him in the afterlife. A wooden bust shows the king as a young and very human figure, while exquisite gilded statuettes portray him as the ruler of all Egypt. A small shrine of wood covered in gold and silver is engraved with tender scenes of Tutankhamun and his young wife. And most poignant of all is a child-size throne of ebony and ivory inset with gold.

Other spectacular treasures include those from the tomb of Yuya and Tjuya, believed to be Tut's great-grandparents. Tjuya's coffin is a stunning sight, covered in a bright reddish gold inlaid with colored glass that forms her broad collar. Another fascinating artifact comes from the tomb of Amenhotep II: a model boat shaped like the royal barge and painted a bluish green, the color of life reborn. In such a celestial boat the soul of the pharaoh would travel the heavens with the sun god, dying each night and resurrected each morning with the rising sun.

*Tutankhamun and the Golden Age of the Pharaohs* tells the fascinating story of Egypt's 18th dynasty, the height of Egyptian culture, wealth, and power. The empire extended from Libya to Gaza, from Syria to Sudan; art and literature flourished, and architecture and technology advanced. But Tut was born into an era of great cultural upheaval. His father, Akhenaten, had replaced the worship of many gods with a radical new monotheistic religion, only to have it overturned by Tutankhamun's advisors soon after the old king's death.

"Religion, and its emphasis on the afterlife, contoured every aspect of Egyptian society," Dr. Phillips explained. "Just think about where all these objects came from: tombs. Ancient Egyptians spent their lives accumulating objects they would need in the afterlife—furniture, jewelry, games, weapons, amulets, canopic jars to store the organs where the soul resides. And of course, offerings for the gods. You could say they lived to die." (See an interview with Dr. Phillips on page four.)

'Ancient Egyptians spent their lives accumulating objects they would need in the afterlife....You could say they lived to die.'

Tutankhamun's early death has long been shrouded in mystery. He had ruled for about 10 years, and was scarcely out of his teens when he died—unexpectedly, to judge by the relatively small and simple tomb in which his mummified body was buried. X-rays taken in 1968 suggested to some that he might have been killed by a blow to the head. But the exhibition offers a series of recent, more detailed CT scans that show no signs of trauma. The CT video shows a "virtual autopsy" of Tut's mummy. (The mummy itself remains in the Valley of the Kings.) Visitors will also see a newly commissioned bust, offering a life-like interpretation of Tutankhamun based on the CT scan. In a large display, "The Faces of Tut," visitors can compare that version with photographs of two other busts made from the scan, and with images drawn from the art they've seen throughout the exhibition.

"There have been a number of conflicting theories about what Tut looked like," says Field Museum Project Management Director David Foster. "This will give visitors an opportunity to see first-hand how scientific knowledge and interpretations develop over time." **ITF**

An exhibition from National Geographic. Organized by Arts and Exhibitions International and AEG Exhibitions in association with The Supreme Council of Antiquities of Egypt and The Field Museum.

Tour Sponsor: Northern Trust  
Chicago Sponsor: Exelon, Proud Parent of ComEd

*Opposite, left: A mirror case made of wood covered with sheet gold.*

*Opposite, middle: Tutankhamun's heart scarab lies in the center of this stone and glass pectoral.*

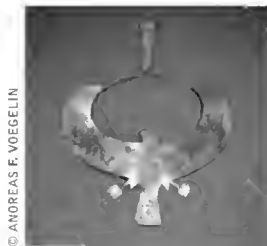
*Opposite, right: A gold coffinette, measuring 15.5 inches in length, held the liver of Tutankhamun.*

# Our Fascination with King Tut and Ancient Egypt

## A Conversation with James L. Phillips

Nancy O'Shea, Editor

The Museum's content specialist for *Tutankhamun and the Golden Age of the Pharaohs* is James L. Phillips, PhD, acting curator of the Near East and North Africa at The Field Museum and professor of anthropology at the University of Illinois, Chicago. In the following interview, Dr. Phillips discusses why Tut and ancient Egypt continue to captivate us and what we can learn from the exhibition.



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**ITF:** *Why do you think people are fascinated by King Tut and by ancient Egypt in general?*

**Dr. Phillips:** People are fascinated by Tut because of the spectacular nature of the artifacts and the context in which they were found. When Howard Carter found Tut's tomb in 1922, communication was just beginning to become global, so it was one of the first big events that the world learned about as it was happening. The drama of the discovery entered the psyche of the Western world (Egypt was *always* in the psyche of the Eastern world.) Also, ancient Egypt has a visual element that some other ancient cultures don't have. We've all heard about ancient sites such as the temples at Angkor Wat and the Hanging Gardens of Babylon. But have you ever been to Babylon? You don't see the gardens now! But you *can* see the pyramids, the sphinx and other monuments of ancient Egypt. We don't have to imagine how they looked. And, through the ages people have removed important artifacts from Egypt and brought them to their own countries—London and Istanbul have almost identical Egyptian obelisks in public squares—so we think of ancient Egypt as a forerunner of our own cultures, even though that really isn't true. Judeo-Christian-Muslim origins have nothing to do with Egypt. Those cultures began in Mesopotamia or the Levant, not Egypt. And don't forget, Egypt also fascinates us because as grammar school children we are all taught about Egypt and the mysteries of the tombs and the burial practices.

**ITF:** *What objects in the exhibition are your favorites, and why?*

**Dr. Phillips:** I really like the sarcophagus of Tjuya, the great-grandmother of Tut. I think it's prettier than Tut's sarcophagus [which is not in the exhibition]. I also like the gold dagger that was found on his body.

**ITF:** *Why do you like the dagger?*

**Dr. Phillips:** (Laughs) Because it's *pretty*! You don't need any other reason to like something!

**ITF:** *What role did you play in helping the Museum prepare for the exhibition?*

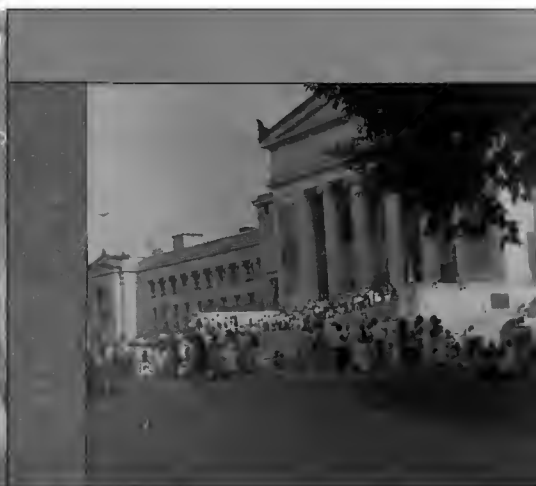
**Dr. Phillips:** Well, this is an interesting story. During the *Cleopatra* exhibition a few years ago, I went out to dinner with [Field Museum President] John McCarter and [Egyptian archaeologist] Zahi Hawass. Zahi and I talked about putting together an exhibition we called "Life and Death in Egypt," but John kept asking about the possibility of bringing Tut back to Chicago. The next year, Zahi was appointed head of the Supreme Council of Antiquities of Egypt and he wrote to me and said that a Tut exhibition was being organized! That's when the Museum's exhibitions senior staff became involved and pushed the project forward. *Tutankhamun* is a traveling exhibition, and is being shown in institutions that have very different physical spaces. Originally, our exhibition space was going to cover 7,500 square feet, but that was eventually doubled to 15,000. I have to give



JOHN WEINSTEIN/GN90716\_015D



RDN TESTA/GN82608



RDN TESTA/GN82611B\_10

*Above, left:*  
*James L. Phillips, PhD,*  
*is the content specialist*  
*for Tutankhamun and*  
*the Golden Age of*  
*the Pharaohs.*

*Above, middle:*  
*Stanley Field Hall*  
*as it looked during the*  
*1977 Tut exhibition.*

*Above, right: Long lines*  
*formed to see Tut in 1977.*

*Opposite: Found on*  
*King Tut's body was this*  
*pectoral in the shape*  
*of a falcon.*

a lot of credit to members of the Field's exhibitions team led by Project Management Director David Foster—they did a wonderful job. As content specialist, it's been my job to give input from an academic point of view. I also help explain the significance of the exhibition to the media and will give some public programs.

**ITF:** *Are you currently conducting research in Egypt or the Middle East?*

**Dr. Phillips:** I'm doing research in Sinai—an excavation of a New Kingdom site built by Tut's great-grandfather, Amenhotep III. It's a fort on the border of Canaan and Egypt in northwestern Sinai. That's a project for Trinity International University in Deerfield [Illinois]. Then I'm going to southern Turkey, near Antioch, on a project for the Oriental Institute. We'll be working in the Hittite City of Alalach and investigating what happened to local residents when Hittites conquered the city.

**'The current Tut exhibition is very different from the exhibition in 1977.... [it] puts Tut into the context of his time in history...'**

**ITF:** *How would you rate The Field Museum's Egypt collections?*

**Dr. Phillips:** The Museum has a wonderful collection of artifacts from Egypt. The collection is not very large, but it contains many historically important pieces.

**ITF:** *When visitors leave the Tut exhibition, what do you hope they will have learned?*

**Dr. Phillips:** The current Tut exhibition is very different from the exhibition in 1977. The earlier exhibition told the story of Tut from more of an art history perspective and all objects were from his tomb. This new exhibition puts Tut into the context of his time in history and what was happening in areas such as religion and politics. More than 50 percent of the objects come from tombs of his ancestors. I hope people leave with a better sense of Egyptian history and the place of young Tut in that historical scheme. Actually, Tut's relatives were far more important than he was. His father, Akhenaten, was the "Sun King," and his grandfather, Amenhotep III, expanded Egypt. **ITF**



# Educational Partnerships Complement Tut Exhibition

By Tiffany Plate, Writer

This summer, Chicago will be Tut-crazy. And it won't just happen at The Field Museum. *Tutankhamun and the Golden Age of the Pharaohs*, augmented by a number of special programs and collaborations, will have you seeing symbols of Egypt everywhere you go.

The Field is a cultural institution with a long history of providing educational opportunities that extend outside the Museum walls—especially

when a blockbuster exhibition like *Tutankhamun and the Golden Age of the Pharaohs* comes to us. That's why, each year, the Field forges partnerships with other local organizations and institutions that help expand our reach to new and diverse audiences.

While *Tutankhamun* is at the Field, we'll partner with the Oriental Institute and Museum, the Chicago Public Library, and a number of other organizations to cross disciplines and provide a well rounded "Tut experience" for visitors of all ages. For instance, kids can go to their Chicago Public Library branch to discover the wonders of ancient Egypt, adults can take field trips around the city to see Egyptian architectural influences, and teachers can learn what modern technology is telling us about Tut's time through the scholarship of local Egypt experts.

"It's important for us to reach beyond the Museum walls and into the communities," says Beth Crownover, the Museum's public programs and operations director. "Working with scholars and researchers at institutions like the Oriental Institute provides us with additional resources that we can, in turn, bring to our own audience."

Though the collaborations with the Oriental Institute will result in mostly adult-focused programs, other important partnerships will provide fun for children and families, too. Our annual Summer World's Tour Summer Camp is a joint collaboration among the Museum Campus institutions. This summer, campers will visit the King Tut exhibition

at the Field, discover the importance of preserving the Great Lakes at the Shedd, and engage in space exploration at the Adler.

Children will also be able to experience Tut through a special Summer Reading Program offered in conjunction with Chicago Public Libraries. Children of all ages are encouraged to participate by reading and reporting on a book at any of the 79 Chicago Public Library locations. The program will lead them on a journey to the world of King Tut, the pharaohs, and more. The more books children read, the more prizes they can win. Libraries will also guide children through some of the Field's favorite interpretive activities, including *70 Days of Mummification*, in which kids prepare a cloth mummy for its journey into the afterlife. In August, the reading program will come to an exciting climax when participants visit the Museum to see the ancient treasures of *Tutankhamun and the Golden Age of the Pharaohs*.

The magic of *Tutankhamun* can't be held within the Museum's walls. Stop by your local library, register for a special class, and visit the exhibition to discover *all* of the wonders of ancient Egypt. **ITF**



PHIL MOLITIS



PHIL MOLITIS

Top: Vicky Alikhan, a children's librarian from Chicago's West Addison branch, wears a Tut-inspired headdress during a summer reading orientation.

Bottom: David Foster, Field Museum project management director, speaks to a group of Chicago librarians about the Tut exhibition.

SEE THE ENCLOSED YOUR GUIDE TO THE FIELD FOR A COMPLETE LISTING OF ADULT AND FAMILY TUTANKHAMUN-RELATED ACTIVITIES. FOR MORE INFORMATION ABOUT TEACHER PROGRAMS, CALL 312.665.7513.

# YOUR GUIDE TO THE FIELD

INSIDE > EXHIBITIONS FESTIVALS FAMILY PROGRAMS ADULT PROGRAMS

## Programs at a glance

**DETAILS INSIDE!**

### FAMILY PROGRAMS

Egypt Discovery Days 5/26–29  
Create a Play in One Day 5/27  
Wrapped Up in Reading 6/12–8/5  
Special Artists at the Field 6/17  
Silk Road Story Time starts 6/17  
Summer Camp starts 7/10  
Two of Us 8/7–8/28 & 9/4–9/25  
Mazon Creek Field Trip 8/26  
Upcoming Overnight 9/8

### ADULT PROGRAMS

Cahokia Mounds Field Trip 6/3  
Egypt's Past and Present:  
Sunday Symposia 6/18, 7/16, 8/20  
Dinosaurs with Feathers  
Lecture 6/22  
Egyptomania, Chicago Style 7/15

## New Exhibition!

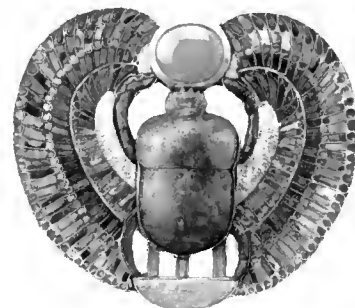
## TUTANKHAMUN AND THE GOLDEN AGE OF THE PHARAOHS

**MAY 26, 2006 THROUGH JANUARY 1, 2007**

During the 1977 blockbuster exhibition tour, Tutankhamun, the celebrated “boy-king,” became a cultural phenomenon around the world. Thirty years later, King Tut returns. We are proud to present a spectacular new exhibition enhanced by new technology. See nearly 130 dazzling Egyptian treasures, including many, like Tutankhamun’s royal diadem, that were not shown in the 1977 tour. Explore the magnificent 18th Dynasty, and gain a present-day appreciation of Tut’s brief but magical reign.

An exhibition from National Geographic. Organized by Arts and Exhibitions International and AEG Exhibitions in association with The Supreme Council of Antiquities of Egypt and The Field Museum.

Tour Sponsor: Northern Trust  
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## Featured Lecture

### Tutankhamun: Exhibiting a Legend

*David Silverman, Exhibition Curator*

Follow the legend of Tutankhamun back nearly 100 years, from the discovery of his extraordinary tomb to the treasures of the current exhibition. The curator of both exhibitions (1977 and today) will talk about the excavation of the tomb and the subsequent exhibitions that sparked Egyptomania in the US. Regain a sense of nostalgia about the craze around the original exhibition and discover the new technologies that have made this new gathering of artifacts all the more important.

**SATURDAY, MAY 27, 2PM**

*\$16, students/educators \$14, members \$12*

*CPDUs available*



ELIZABETH WALKER AND JENNIFER WEGNER

The **Field**  
Museum

**GENERAL MUSEUM INFORMATION: 312.922.9410**

**FAMILY AND ADULT PROGRAM TICKETS AND INFORMATION: 312.665.7400**

**Please note:** Refunds will be issued by Field Museum staff, minus a \$10 processing fee, for group and family overnights only. No refunds or exchanges are permitted for any other programs. Fees for programs cancelled by The Field Museum will be refunded in full.

# Unearth the wonders of ancient Egypt

Experience **TUTANKHAMUN AND THE GOLDEN AGE OF THE PHaraohs** and join these dynamic programs to learn all about Egypt—from the 18th Dynasty to today.

## Egypt Discovery Days

Get some hands-on experience with ancient Egypt! Participate in special Interpretive Station activities—families can play the giant Senet Game, see their name in hieroglyphs, or help construct a giant pyramid. Watch as Artists at the Field create Egyptian-themed projects, then borrow fun Harris Educational Loan materials to extend the learning into your home!

**FRIDAY–MONDAY, MAY 26–29, 10AM–2PM**

*Free with Museum admission*

## Children's Workshop

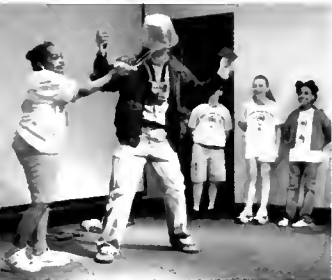
### Create a Play in One Day!

*Foundation Theatre Group*

Put your little one in the director's chair! Children ages 5–11 will write a short Egypt-themed play under the tutelage of professional actors, cast it with their new friends from the workshop, create their own

costumes, and perform for the general public at the Museum that same day.

**SATURDAY, MAY 27,  
10AM–2PM REHEARSAL,  
2:30PM PERFORMANCE  
\$16, members \$12**



JOHN WEINSTEIN/GN90771.1360

## Gallery Programs

### Story Time

Take a seat in one of our exhibition halls, hear a story, and make an art project to take home, all in 20 minutes! This summer we'll be featuring *Egyptian Gods and Goddesses* by Henry Barker, *I Met a Dinosaur* by Jan Wahl, and *Tutankhamen's Gift* by Robert Sabuda.

**EVERYDAY IN JULY & AUGUST,  
WEEKENDS YEAR ROUND, 1:30PM**

*Free with Museum admission*

## Summer Reading Program

### Wrapped Up in Reading

The Chicago Public Library, together with The Field Museum, is celebrating ancient Egypt with the children's Summer Reading Program. Children of all ages are

encouraged to participate by reading a book and reporting on it at any of the 79 Chicago Public Library locations.

The program will lead them on a journey of exploration and discovery of the times of King Tut, the pharaohs, and more. The more books

they read, the more stickers they gather and prizes they win! For more information please visit [chicagopubliclibrary.org](http://chicagopubliclibrary.org) or call 312.747.4780.

**JUNE 12–AUGUST 5**

*Free*



FM/TIFFANY PLATE



KIMBERLY MAZANEK/GN90782.059D

### Interpretive Stations

Stop by a hands-on interpretive station to learn more about ancient Egypt. See what your name looks like in hieroglyphs, learn to play senet on our gigantic game board, help with the preparation of a mummy with our *70 Days of Mummification* activity, or try our new *How to Build a Pyramid* station! Museum docents will be on hand to answer questions and facilitate these interactive displays.

**SATURDAYS & SUNDAYS IN JUNE,  
DAILY IN JULY & AUGUST,  
10AM–NOON AND 1–3PM**

*Free with Museum admission*

# Adult Symposia



## Egypt's Past and Present: Sunday Symposia

Take a closer look at some of the most fascinating stories surrounding Egypt in this three-session series. CPDUs available.

### The 18th Dynasty: Tutankhamun and the Nile in Context

*Dr. Peter Dorman, The Oriental Institute, Dr. James Phillips, FM Dept. of Anthropology, Dr. Mohammed el Bahay Issawi, Egyptian Geological Survey and Mining Authority, Dr. Mohammed Abdel Mahsoud, Sinai for Egyptian Antiquities Authority*

Get a fascinating view of ancient Egyptian history, including the 18th Dynasty, the importance of the Nile

in Egyptian culture, and the landmark events that led up to the time of Tutankhamun's reign.

SUNDAY, JUNE 18, 1:30PM



COURTESY JIM PHILLIPS

### Religion and Art in the Time of Tutankhamun

*Dr. Gay Robins, Emory University, Dr. James K. Hoffmeier, Trinity International University*

Explore the important role that art and religion played in ancient Egypt, especially with regards to the burial practices of royalty, such as Tutankhamun.

SUNDAY, JULY 16, 1:30PM

### Contemporary Excavations and Research in Egypt

*Dr. Stephen P. Harvey, The Oriental Institute, Prof. Miroslav Barta, Charles University, Prague, Dr. W. Raymond Johnson, The Oriental Institute*

Get the latest news on recent digs in Egypt's historically rich sites.

SUNDAY, AUGUST 20, 1:30PM

*Each symposia: \$16, students/educators \$14, members \$12*

Egypt's Past and Present: Sunday Symposia is presented in collaboration with The Oriental Institute at the University of Chicago.

## Special Artists at the Field

Learn about the ancient practice of papyrus-making with featured artist Karen O'Neal.

SATURDAY, JUNE 17, 11AM-2PM

*Free with Museum admission*



CATHRYN C. MONTGOMERY/9050.9AC



## Egyptomania, Chicago Style

*Michael Berger, Egyptologist*

Get on board for a bus tour of Chicago as you've never seen it before! Discover how Egyptian art and design have influenced the look of architectural and historic sites throughout the city. Start with an orientation at the Oriental Institute, followed by a city-wide bus tour that includes lunch at a Middle Eastern restaurant. Tour involves some walking, so wear comfortable shoes and dress for the weather. Coach bus transportation, lunch, and handouts included.

SATURDAY, JULY 15, 9:30AM-4PM

*\$79, TEM and OI members \$70*

*CPDUs available*

## Summer Camp

### Summer World's Tour 2006

*Limited Space Available*

Don't miss the dynamic experience of summer camp on the Museum Campus! Organized collectively with Adler Planetarium and Shedd Aquarium, Summer World's Tour at the Field will help children investigate artifacts from the distant past, and see why their preservation is such an important part of helping us understand our present and future! Kids will try their hand at various ancient Egyptian practices such as papyrus making, jewelry making, and mummification, then investigate whether or not Tutankhamun's tomb really carries a curse!

FOR CHILDREN AGES 5-10 ONLY.

CHOOSE ONE SESSION: JULY 10-14, JULY 17-21, JULY 24-28, OR JULY 31-AUGUST 4

\$220, members \$200

To register, please call the Adler at 312.322.0329.



JOHN WEINSTEIN/90772.110

## Bring the treasures of The Field Museum right into your home!

Are you looking for fun, hands-on educational activities to do with your children or ways to reinforce what your child learns in school? Borrow Museum materials from the Harris Educational Loan Center! We offer ready-to-use hands-on educational kits and dioramas based on Field Museum exhibitions.

Search our catalog, reserve materials, and register online at [www.fieldmuseum.org/harrisloan](http://www.fieldmuseum.org/harrisloan). Annual registration for families and home schoolers is \$60 per year; borrowing is free. For more information, call 312.665.7555 or email [harrisloan@fieldmuseum.org](mailto:harrisloan@fieldmuseum.org).



HARRIS IS OPEN

TUESDAY-FRIDAY, 10AM-5PM,  
AND SATURDAY 9AM-4PM



PAINTING BY WILLIAM R. ISENGER

## Adult Field Trip

### Cahokia Mounds

*Dr. Maxine McBrimm, FM Dept. of Anthropology*

Travel to Cahokia Mounds State Park, center of the Mississippian world and the largest center of population in prehistoric native America north of Mexico City.

SATURDAY, JUNE 3, 6AM-8PM

\$85, members \$75

## Adult Lecture

### Dinosaurs with Feathers

*Dr. Mark Norrell, American Museum of Natural History*

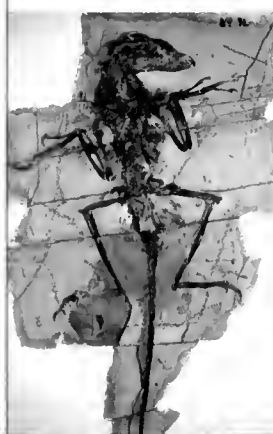
Step into the shoes of this important paleontologist who's busy tracing the connections between small carnivorous dinosaurs and modern birds. You'll travel across the globe with him as he names new dinosaurs and attempts to develop

new ways of looking at fossils using CT scans and imaging computers. Norrell will discuss his discovery of the bizarre primitive bird *Mononykus*, as well as the unearthing of other important bird-like characteristics in all kinds of dinosaurs.

JUNE 22, 7PM

\$16, students/educators \$14,  
members \$12

CPDUs available



FM/PETER MAXOVICKY

## Tutankhamun and the Golden Age of the Pharaohs

MAY 26, 2006 - JANUARY 1, 2007

## Cheyenne Visions

OPENS JUNE 16, 2006



© TIFFANY PLATE



## A Special Story Time

### Along the Silk Road

Come walk along the ancient Silk Road trade route. To make our long journey more enjoyable we'll share stories about the exotic places we pass through with fellow travelers. How did the beautiful crescent-shaped lake that lies nearby Dunhuang first appear? Make your very own shadow puppet to help tell the story of the White Cloud Fairy and find out!

WEEKENDS, JUNE 17-18, JULY 15-16,  
AND AUGUST 19-20, 1:30PM

Free with Museum admission



## Family Workshops

### Two of Us



Join us in one of these four-week excursions through the wonders of The Field Museum! You and your little one will travel the Museum's exhibition halls, sing songs, hear stories, touch objects, make art projects, and enjoy snacks. Choose from one or more of the following sessions:

**Dance and Culture:** Explore the role of dance and movement in different cultures around the world.

TUESDAYS, AUGUST 7-28, 10-11AM

**Egypt:** Travel to ancient Egypt and discover the fascinating reign of King Tut.

TUESDAYS, SEPTEMBER 4-25, 10-11AM

Each four-week session: \$32, members \$27

For each 3-5 year old child with paid attendance,  
one adult chaperone attends free.

## Expeditions@fieldmuseum™

Dig into the past of Peru's ancient Andean empires with Field Museum Curator and archaeologist Dr. Patrick Ryan Williams and his distinguished team of fellow scientists. Follow them to excavations at Cerro Baúl, a remote mountaintop citadel that was the sole point of contact between the Tiwanaku and the Wari—two great kingdoms whose dynamic relationship ultimately contributed to the rise of the Incan Empire.



© P. COLEMAN

Sign up to receive Dr. Williams' emails from the field (beginning early June) at [www.fieldmuseum.org/expeditions](http://www.fieldmuseum.org/expeditions). While you're there, stop by the Cerro Baúl website to watch videos of the 2004 season, read crew bios and track the research with interactive maps!



© PACB

## Give your summer science programs a soil adventure!

Environmental educators will bring the Soil Adventure Mobile to your community group or summer camp, and show you and your children just what's going on underground. They'll touch live wiggling worms, use microscopes to see soil organisms close up, and learn about the complex ecosystems that exist beneath our feet. Find out more information at [www.fieldmuseum.org/education/outreach\\_sam.htm](http://www.fieldmuseum.org/education/outreach_sam.htm) or by calling 312.665.7519.

## Eskimo and Inuit Carvings: Collecting Art from the Arctic

JULY 1, 2006-JUNE 17, 2007

## Impressions of Tsavo

JULY 7, 2006-JULY 7, 2007

## Family Field Trip

### Fossil Hunt at Mazon Creek

Dave Dolak, Columbia College

Get out your hiking boots and join us for a fossil hunt at the world-famous Mazon Creek site. You'll find your own fossils and discover what Illinois was like more than 300 million years ago. Plan on a one-quarter mile walk to fossil locations.

SATURDAY, AUGUST 26, 8AM-3PM

\$40, members \$30



FM/KAREN CARR

FM/KAREN CARR



## Family Overnight

### Dozin' With the Dinos

Sue the T. rex is having a sleepover! Join us for a night of family workshops, tours and performances. Explore ancient Egypt by flashlight, prowl an African savannah with man-eating lions and take a stroll through the Royal Palace in Bamun, Africa. Then spread your sleeping bag amidst some of our most popular exhibitions. The event includes an evening snack and breakfast.

FRIDAYS, SEPTEMBER 8 & 15,

5:45PM UNTIL 9AM THE FOLLOWING DAY

\$47, members \$40

CATHRYN C. MONTGOMERY/90731.5C



## Upcoming Adult Course

### Advanced Chicago Geology

Join this combination class and field trip just for adult amateur geologists! You'll get a chance to learn and practice field techniques through classroom lectures and demonstrations as well as site visits to premier local geological areas. The field trip will include a visit to the Chicago Portage, Palos Hills to explore glacial remnants, a rare stop at Camp Sagawau Forest Preserve (Cook County's only canyon), and Mazon Creek for fossil collecting.

WEDNESDAYS, SEPTEMBER 13 & 20, 6-9PM,

FIELD TRIP: SEPTEMBER 30, 8AM-4PM

\$95, members \$85

## Upcoming Lecture

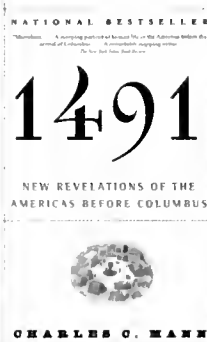
### 1491: New Revelations of the Americas Before Columbus

Charles Mann, Author

Journey back in time to an American land you've never known. Mann will discuss his best-selling book, which traces the "pre-history" of the Americas and debunks myths about the first inhabitants of this land. You'll learn about the sophisticated cities of the Aztecs, the agricultural advances of pre-Columbian Indians in Mexico, then hear how the Field's own anthropological research is contributing to this story.

THURSDAY, OCTOBER 19, 7PM

\$8, students/educators \$7, members \$6



COURTESY CHARLES MANN

## The Auschwitz Album: The Story of a Transport

THROUGH JUNE 4, 2006

# New exhibition coming this fall

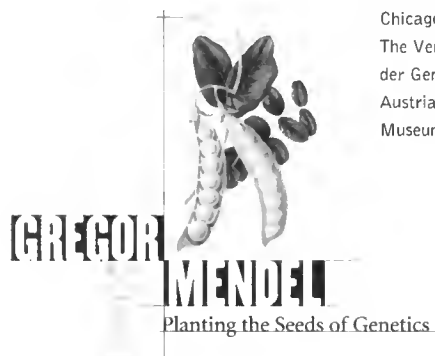
# September kick-off event

## Gregor Mendel: Planting the Seeds of Genetics

**SEPTEMBER 15, 2006–APRIL 1, 2007**

Meet the brilliant, 19th-century friar who became the father of modern genetics. Recreate Mendel's famous pea experiments to discover the laws of heredity for yourself, understand the basics of genetics, and meet modern Mendels—scientists on the cutting edge of this field today.

This exhibition and its North American tour were developed by The Field Museum, Chicago, in partnership with The Vereinigung zur Förderung der Genomforschung, Vienna, Austria, and The Mendel Museum, Brno, Czech Republic.



KIMBERLY MAZANEK/GN90782.1180

## Cultural Connections

The Field Museum and over 20 community-based cultural centers and museums have joined together to bring you a new year of Cultural Connections, a series of public presentations by community members about Chicago's cultural diversity and an opportunity for you to share your own perspectives through dialogue.

To meet this year's partners, learn about the annual theme of teaching, and enjoy an evening of food, musical performances, and storytelling, join us Wednesday September 20 from 5:30–7:30pm for our annual Kick-Off Event at The Field Museum.

For more information, go to [www.fieldmuseum.org/ccuc](http://www.fieldmuseum.org/ccuc) after August 1.

Cultural Connections has received generous support from The Institute of Museum and Library Services, Kraft Foods, CHASE, Polk Bros. Foundation, Richard H. Driehaus Foundation, Chicago Public Schools' Office of Language and Cultural Education, Illinois Humanities Council, and Charles and M.R. Shapiro Foundation.



# NATIONAL GEOGRAPHIC *LIVE!*



DAVID DOUBILET

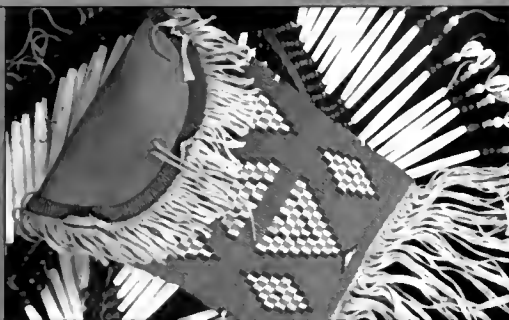
## Get your tickets early for our exciting fall National Geographic Live! presentations.

Join us for another series of entertaining evenings with dynamic men and women whose stories of exploration will enlighten and inspire you. Visit our website to find out more about the series schedule.

**SERIES TICKETS GO ON SALE JULY 15.**

# Study art where humans and nature intersect

DIANE ALEXANDER WHITE/A114051C



## Cheyenne Visions

OPENS JUNE 16, 2006

Celebrate the artistic vibrancy of Cheyenne history and present-day culture through beautiful color photographs of Cheyenne art and artifacts.



JOHN WEINSTEIN/A114421.03D

## Eskimo and Inuit Carvings: Collecting Art from the Arctic

JULY 1, 2006–JUNE 17, 2007

Discover historic and contemporary carvings in stone and animal bone created by Eskimo and Inuit artists from Alaska and Canada.



JOHN WEINSTEIN/Z986428C

## Impressions of Tsavo

JULY 7, 2006–JULY 7, 2007

Dazzling color photographs reveal the remarkable wildlife, landscape, and people of the Tsavo region in East Africa.

These exhibitions were organized by The Field Museum.



MIKE SIOREK

### GETTING HERE

Field Museum visitors can park in Soldier Field's parking garage. Visit [www.fieldmuseum.org](http://www.fieldmuseum.org) for information on parking lots/rates, free trolleys and public transit.

### HOURS

Summer hours are 8am–5pm daily. Last admission at 4pm. Hours are subject to change. Please consult the Museum's website for the most up-to-date information. Please note the Museum closes at 5pm even when an evening event is scheduled. Event participants will be asked to leave the building until 30 minutes before their event begins.

### ADMISSION AND TICKETS

For this special engagement of *Tutankhamun and the Golden Age of the Pharaohs*, members (except for Royal Tut and Tut at Twilight members) will be eligible to purchase exhibition tickets at a reduced rate of \$10 (versus \$25 for non-members). Family members are eligible for up to four discounted tickets; Individual, Senior and National Affiliate members are eligible for up to two discounted tickets; Student members are eligible for one discounted ticket. Tickets can be purchased by calling 312.665.7705 Monday–Friday from 8:30am–4:30pm or picked up at the Membership Services desk at the south or east entrances. Tut and Tut at Twilight Members should call 312.665.7929 to reserve their exhibition tickets. For more information, please visit [www.fieldmuseum.org/membership](http://www.fieldmuseum.org/membership).

For non-members, The Field Museum's gold pass, which includes general admission plus one of our other special exhibitions such as *Tutankhamun* or *Underground Adventure*, ranges in price from \$8 to \$25, depending on your age category and whether you are a Chicago resident. Please bring your ID to receive the appropriate ticket price. Tickets are available at the Museum's admission desks, or in advance via [www.fieldmuseum.org](http://www.fieldmuseum.org) or 866.FIELD.03. For all admission and ticket details, visit [www.fieldmuseum.org](http://www.fieldmuseum.org).

### ACCESSIBILITY

Visitors using wheelchairs or strollers may be dropped off at the new east entrance. Handicapped parking and wheelchairs are available on a first-come, first-served basis. The Museum's west parking lot is also available for handicapped parking on a first-come, first-served basis, and the west entrance is also handicapped-accessible. Call 312.665.7400 to check on the accessibility of programs that take place outside of the Museum.

### INFORMATION

312.922.9410 or [www.fieldmuseum.org](http://www.fieldmuseum.org)

The Field Museum salutes the people of Chicago for their long-standing, generous support of the Museum through the Chicago Park District. In addition, Museum programs are partially supported by a CityArts Program 4 Grant from the City of Chicago Department of Cultural Affairs and the Illinois Arts Council, a state agency.

In accordance with Title IX of the Education Amendments Act of 1972, we do not discriminate on the basis of sex in our programs or activities. Please call 312.665.7271 to contact our Title IX Coordinator in the human resources department should you have any questions or concerns.

SCOTT DEMEL



*Above: A detail from the sarcophagus.*

*Below: The sarcophagus (with lid positioned above it) dates to the 4th century BC.*

*Bottom, right: Museum staff move the heavy lid into the Collections Resource Center.*

## The Sarcophagus of Pefthaukhonsu: A Field Museum Treasure

**Dating to the 30th Dynasty** (4th century BC), the black granite sarcophagus of Pefthaukhonsu is an impressive example of late Egyptian artistry, ritual, and funerary practice. Acquired by Edward Ayer, an instrumental figure in the founding of The Field Museum and a life-long benefactor and trustee, the sarcophagus (from Greek, literally meaning “eater of flesh”) was discovered in 1911 in Saqqara, Egypt, as part of a group of sarcophagi in a chamber about 65 feet underground. After a period of some negotiation, Ayer secured the sarcophagus for The Field Museum for a sum equal to \$48,000 in today's dollars.

Although little is known of its occupant, Pefthaukhonsu, such an imposing and costly final resting place is a testament to its owner's wealth and prestige. Much of the surface of the sarcophagus and its lid is covered with inscribed scenes and text, representing important portions of the Egyptian funerary canon. The lid and base are replete on all sides with images of gods and goddesses (including Khepri, Isis, Osiris, Nut, Nephthys, and the goddess of the West), as well as worshipping baboons. Pefthaukhonsu, the occupant, makes two appearances on the lid, dressed once as a prince and once as a scribe. The sarcophagus is also inscribed with two spells from the Book of the Dead that served to protect the soul of the deceased and guarantee its reunion with the body in the afterlife.

Before this sarcophagus was buried, the handles were removed from the lid in order to impede any grave robbers.

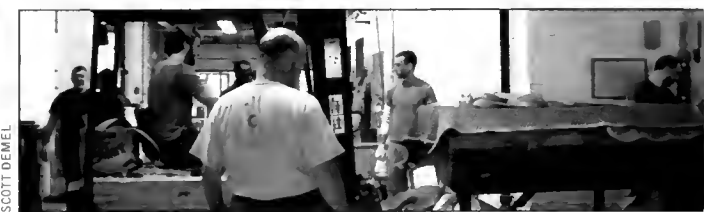
Despite this and other safeguards, robbers entered the tomb, removed the lid, and looted the contents. Archaeologists found no mummy when they excavated the sarcophagus.

The base of the sarcophagus is currently on display on the Museum's ground floor, near the entrance to *Inside Ancient Egypt*. But the lid, which has been displayed in the past, is currently in storage. In fact, the lid of the sarcophagus was one of the first pieces moved into the recently completed Collections

Resource Center, and at a weight of between 8,000 and 10,000 pounds, it was definitely the heaviest! **ITF**



CSA35268



SCOTT DEMEL

*William J. Pestle, The Field Museum's anthropology collections manager, human remains and Old World archaeology, chose this Scientist's Pick.*



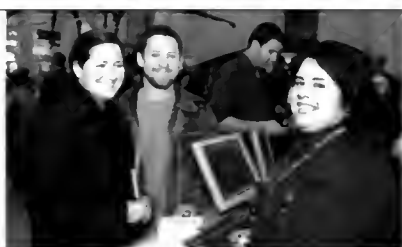


## Our Front Line: Helping Make the Field Chicago's Friendliest Museum

Nancy O'Shea, Editor

Photos by Diane Alexander White

They are the Museum's public face: employees who work in our Membership, Guest Relations and Protection Services Departments. Here we introduce you to seven representatives from those departments. You can count on them, and our entire front line staff, to rise to the challenge of welcoming capacity crowds to the King Tut exhibition, and to make every visit to The Field Museum as pleasant and safe as possible.



### VIRGINIA ATKINSON

*What is your title?* Guest Relations Representative.

*How long have you worked at the Field?* This is my fourth year.

*What do you do?* I cashier at the doors, take tickets at exhibitions, check coats, work at the switchboard or booking office, and answer questions. I wear many hats.

*How many Museum visitors/callers do you talk to during a typical day?* During busy seasons, it's several hundred.

*It's a good day when* I've tackled every situation with a creative solution.

*It's a bad day when* I have to break the news that the current big exhibition is sold out.

*List three words that describe your job:* Challenging. Interactive. Diverse.



### LYSETTE BELL

*What is your title?* Membership Sales Representative Supervisor.

*How long have you worked at the Field?* Twelve years.

*What do you do?* I supervise and assist the floor membership staff in signing up new members, renewing existing members, assisting members and donors with tickets for special exhibitions, and answering any questions about the benefits of being a Field Museum member.

*How many visitors/callers do you talk to during a typical day?* We help several hundred...up to a thousand members!

*It's a good day when* the weather is beautiful and we have lots of visitors.

*It's a bad day when* we don't have many visitors.

*List three words that describe your job:* I try to be: Helpful. Patient. Approachable.



### CARYN BENSON

*What is your title?* Membership Revenue Coordinator.

*How long have you worked at the Field?* Three years.

*What do you do?* I split my time between working in the membership office and working on the floor.

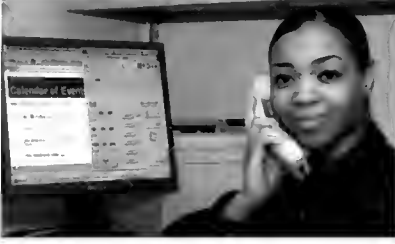
*How many visitors/callers do you talk to during a typical day?* When I'm in the office, I speak to about 20 members a day. When I'm on the floor, I help about 250.

*It's a good day when* 90 percent of the members are satisfied but I always try to make 100 percent happy, then it's a great day!

*It's a bad day when* a member has a less than perfect experience.

*List three words that describe your job:* Enjoyable. Unique. Well-rounded.

# ADMISSIONS DESK



## SHERRI BROWN

*What is your title?* Guest Relations Representative.

*How long have you worked at the Field?* About two years.

*What do you do?* Work at the switchboard, or as a cashier, or ticket taker. I try to help guests make the most of their visit.

*How many Museum visitors/callers do you talk to during a typical day?* It's hard to say, but certainly more than 100. On busy days, it can be several hundred.

*It's a good day when* I have no complaints from guests.

*It's a bad day when* a guest is unhappy.

*List three words that describe your job:* Challenging. Rewarding. Underestimated.



## STEVE GRISSOM

*What is your title?* Protection Officer.

*How long have you worked at the Field?* Thirty-one years. I'm one of the few current Museum employees who worked here during the 1977 King Tut exhibition!

*What do you do?* Assist the general public, protect and secure Museum staff and exhibitions, and many other things.

*How many Museum visitors/callers do you talk to during a typical day?* When we're not busy, it's about 200 to 300 a day.

*It's a good day when* everything works well.

*It's a bad day when...* well, I like to think there's no such thing as a bad day!

*List three words that describe your job:* Lots of fun.



## KEISHANA MOORE

*What is your title?* Membership Reservation Representative.

*How long have you worked at the Field?* Two years.

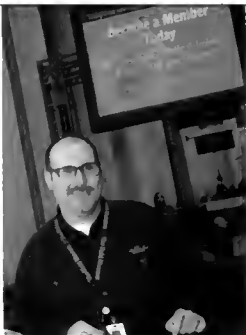
*What do you do?* I fulfill member and donor ticket requests for special exhibitions like King Tut and for permanent ticketed exhibitions like *Evolving Planet*. I also update membership accounts and organize daily tickets for Will Call.

*How many visitors/callers do you talk to during a typical day?* About 60 members.

*It's a good day when* I don't get any complaints and I'm able to fulfill all ticket requests.

*It's a bad day when* I get a complaint, such as a member not receiving tickets, but I try to solve the problem quickly.

*List three words that describe your job:* Challenging. Fast-paced. Rewarding.



## WARREN ZIEGLER

*What is your title?* Guest Relations Representative.

*How long have you worked at the Field?* About six months.

*What do you do?* Sell tickets and memberships, hang coats, corral school groups, work the switchboard, clean lunchroom tables, answer lots of questions...anything that's needed to make the Museum available to our visitors.

*How many Museum visitors/callers do you talk to during a typical day?* Probably hundreds, especially when working the switchboard.

*It's a good day when* visitors thank me for their day at the Field.

*It's a bad day when* we disappoint a visitor. But we always try to turn the situation around.

*List three words that describe your job:* Necessary. Integral. Stimulating. **ITF**

# An Herbarium for the 21st Century

*Michael O. Dillon, Chair and Curator of Flowering Plants, Field Museum Department of Botany*

*Christine Niezgoda, Collections Manager, Field Museum Department of Botany*

**On May 2, 1921**, when The Field Museum first opened its doors at this location, the Botany Department had been in existence for about 25 years and the botanical collections numbered nearly 500,000 items. This building offered a state-of-the-art storage facility: double-walled, steel cabinets with heavy brass door handles that replaced the wooden cabinets previously used for specimen storage. It was a facility designed to withstand earthquakes or the ravages of war!

In 1972, the Museum's Board of Trustees designated it the John G. Searle Herbarium in recognition of Mr. Searle's great interest in The Field Museum and his support of the Museum's scientific programs.

As the Field's botany collections grew in size, the herbarium's fixed cabinets became increasingly crowded until the flowering plant collection storage reached its limit in the early 1980s. The department's first response was to purchase additional free-standing cases and place them in the hallways of the herbarium.

In 1993, the first of the department's expansion projects moved some of the collections into a former lightwell area of the building and introduced manually operated storage cases on rails. This "compactorized" system allows cases to roll on rails so that they can be pushed together, eliminating aisles when not needed and thus saving space.

Today, some 75 years after moving into this building, the Botany Department has finished moving all of its remaining collections into a completely new space with insect-and-moisture-proof cabinets that run electrically on rails. The physical modifications of the room also include new lighting of the entire space, computer connections, additional countertop workspace, and installation of rubber flooring. The project was completed thanks to the generosity of The Searle Funds at the Chicago Community Trust.

The John G. Searle Herbarium now numbers 2.7 million specimens and is one of the great research collections in the world. It is among the five largest herbaria in North America and is especially rich in neotropical plants and fungi, especially from Central America and Andean South America. The herbarium

performs a dynamic and vital public service of providing collections (as loans) to researchers throughout the world's universities and botanical research institutes.

Over the last 30 years, The Field Museum's Botany Department has provided over 6,200 loans to some 1,100 institutions in 104 countries worldwide. These loans represent nearly 750,000 individual sheets of pressed specimens sent and received. Over that same time period, the depart-

ment has sent out another 250,000 collections as gifts and exchange. Through continued collecting efforts, often from environmentally threatened regions, the collection is still growing by approximately 15,000 specimens per year from joint programs with overseas colleagues, expeditions, gifts, and exchanges with other institutions. **ITF**



DIRK FLETCHER

*Cutting the ribbon to officially open the herbarium were (from left): Nancy Searle, representing the Searle family; Christine Niezgoda, botany collections manager; Marshall Field, chairman of the Museum's board of trustees; and Terry Mazany, chief executive officer of the Chicago Community Trust.*

**'The John G. Searle Herbarium now numbers 2.7 million specimens and is one of the great research collections in the world.'**

TO LEARN MORE ABOUT THE FIELD MUSEUM'S HERBARIUM, PLEASE VISIT [www.fieldmuseum.org/research\\_collections/botany/collections\\_herbarium.htm](http://www.fieldmuseum.org/research_collections/botany/collections_herbarium.htm)



## The Cudahy-Massee Collection

### A Rare Look at African Wildlife

The early 20th century was a golden age of collecting for natural history museums. Driven by civic pride and a desire for adventure, wealthy industrialists, politicians and prominent families routinely sponsored and took part in daring, far-flung expeditions, with the mission of bolstering their city's claim to the biggest, best or rarest exhibitions and collections. In early 1928, civic philanthropists B.A. Massee and John S. Cudahy approached the directors of the Milwaukee Public Museum (MPM) with the idea of mounting the

largest East African expedition to date to collect "families" of animals that would be used to create a grand exhibition hall depicting Africa's plains. The idea was met with great enthusiasm, and on July 21, 1928 the Cudahy-Massee Expedition departed Nairobi on a 10-month, 12,000-mile journey through Kenya, Tanzania, Uganda, Rwanda, Congo and Sudan.

Because the expedition's primary purpose was to collect animals for dioramas, trained taxidermists from the MPM accompanied the party and animals were extensively photographed in their natural environments before being collected. The taxidermists also took unusually extensive notes on each specimen's measurements and appearance, which were recorded on an elaborate system of field cards. Finally, they preserved the skin and entire skeleton of each animal with the intention of subsequently mounting the specimen, rather than the normal (and easier) practice of collecting just the skin and skull.



*Top, left: Members of the Cudahy-Massee expedition (left to right) John Cudahy, Carveth Wells, James L. Clark, S. A. Barrett, and Leslie Carlisle.*

*Top, right: The camp's mascot Sim on the side of a motor car in which he usually rode.*

*Above: Camera car used in photographing in East Africa.*

*In background: Outline measurement chart of zebra.*

Ultimately, the Cudahy-Massee Expedition amassed 266 large mammals, 1,300 birds, 3,000 photographic plates, 40,000 feet of motion picture film, over 100 plaster casts, thousands of scientific illustrations, and one live lion cub (that lived in the MPM's taxidermy studio before becoming a star of the Milwaukee Zoo)! However, this success created a fundamental problem: where to store and display the massive collection? When the Depression hit, plans for a grand Africa Hall fell by the wayside and the collection was stored for nearly six decades in a Milwaukee warehouse.

Recognizing the importance of the Cudahy-Massee collection to researchers worldwide, the MPM donated it to The Field Museum in 1984. With support from the National Science Foundation, Museum staff and volunteers prepared three truckloads of specimens over a six-year period, ranging from juvenile hyenas to an entire hippopotamus.

Today, biodiversity researchers regard the Cudahy-Massee collection as one of the world's finest assemblages of East African large mammals. In addition to its unparalleled variety, the collection contains a number of rare and endangered species from places where the animals no longer exist. The preservation of the animals' skeletons, especially of females and young animals, was also a rarity for the time—providing researchers with a unique set of data unavailable anywhere else. As a result, the collection offers an in-depth portrait of East African wildlife before large-scale habitat alteration forever changed the region.

This year, the preserved skins of the Cudahy-Massee collection will be moved into The Field Museum's new Collections Resource Center, providing even greater long-term protection of, and access to, the collection for researchers. This move will benefit studies of African wildlife for generations to come. **ITF**

FOR MORE INFORMATION ON THE HISTORY OF THE FIELD MUSEUM'S ZOOLOGICAL COLLECTIONS, PLEASE VISIT [http://www.fieldmuseum.org/research\\_collections/zoology/collections\\_mammals.htm](http://www.fieldmuseum.org/research_collections/zoology/collections_mammals.htm)

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DIANE ALEXANDER WHITE

*The Museum is finalizing preparations for King Tut. Above: LaTasha Jimenez of the Membership Department.*

**CALLING ALL YOUNG PROFESSIONALS! BEGIN YOUR SUMMER WITH A SPECIAL FIELD ASSOCIATES "TOAST TO TUT" EVENT ON FRIDAY, JUNE 9. VIEW THE TUT EXHIBITION AND ENJOY LIGHT FARE, COCKTAILS, AND ENTERTAINMENT. TO PURCHASE TICKETS, VISIT [WWW.FIELDMUSEUM.ORG/FIELDASSOCIATES](http://WWW.FIELDMUSEUM.ORG/FIELDASSOCIATES) OR CALL 1.866.FIELD.03.**



SILVE RAHIBUNE

Be sure to visit both the main Museum Store at the south end of Stanley Field Hall and the Egypt Store on the ground level to see the newly expanded collection of Egyptian products. The main store also carries a stunning array of jewelry featuring gemstones, silver and gold in Egyptian designs. And world renowned perfumer, Marilyn Miglin, has created an elegant box set of Seven Sacred Oils, which will be offered exclusively at The Field Museum Stores at the Museum, at the O'Hare Store, and online at [www.fieldmuseum.org](http://www.fieldmuseum.org)

*King Tut on his throne makes a good gift for any Egypt buff's collection (measures 12 inches tall).*

**The Field Museum**  
1400 South Lake Shore Drive  
Chicago, IL 60625-2496

For questions about the magazine, call 312.665.7115, email [noshea@fmnh.org](mailto:noshea@fmnh.org) or write Nancy O'Shea, Editor. For general membership inquiries, including address changes, call 866.312.2781.



# INTHEFIELD

Fall 2006

THE FIELD MUSEUM'S MEMBER PUBLICATION



## Evolutionary Biology

FROM GREGOR MENDEL TO OUR PRITZKER LAB

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Nancy O Shea  
The Field Museum

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**COVER, TOP:** Using the latest  
technology, scientists conduct  
research in the Museum's Pritzker  
Laboratory for Molecular  
Systematics and Evolution.  
Shown are (from left) Lydia Smith  
and Sushma Reddy, PhD.

JOHN WEINSTEIN/GN90811\_600

**COVER, BOTTOM:** A portrait  
of Gregor Mendel (left), after he  
became an abbot in 1868. Dated  
1862, this photo (right) shows the  
Augustinian friars at the Abbey  
of St. Thomas. Mendel is second  
from right in the back row.

BOTH PHOTOS © STEPAN BARTOS

COURTESY OF ROYAL BOTANIC GARDEN, EDINBURGH



ZINA DERY



DAVID ALLYARD/WHITE



# 4

Gregor Mendel is known as the Father of Genetics. Learn about his research involving experiments with pea plants and meet some of The Field Museum's own "modern Mendels" in a new exhibition, *Gregor Mendel: Planting the Seeds of Genetics* (Sept. 15–April 1, 2007).

# 6

Bill Stanley, The Field Museum's Negaunee Collection Manager of Mammals, tells about the discovery of a monkey (*pictured left*) that represents a new genus. The find involved an international team of scientists.

# 10

Many Field Museum staff members are also authors, sharing their expertise with audiences that include students, conservationists, and children. In a special four-page article, nine Field Museum authors discuss their books.

# 14

The Field Museum is restoring its archive of films that date from the 1920s. Many of the films were originally used for educational programs about Museum research and expeditions; today they provide an invaluable glimpse into the past.



## Museum Campus Neighbors

**Adler Planetarium** Egyptian skies come alive at the Adler Planetarium with *Stars of the Pharaohs*, and *Egyptian Nights: Secrets of the Sky Gods*.

These two planetarium shows transport visitors to ancient Egypt to experience the night sky as the pharaohs saw it more than 2,000 years ago.

Planetarium visitors can also take a journey alongside astronaut Jim Lovell in *Shoot for the Moon*, a new permanent exhibition highlighting stories of space exploration. *Shoot for the Moon* features the fully-restored Gemini 12 spacecraft. The exhibition opens on Nov. 11, the 40th anniversary of the Gemini 12 mission. Visit [www.adlerplanetarium.org](http://www.adlerplanetarium.org) or call 312.922.STAR for additional information.

**Shedd Aquarium** Experience *Lizards* and the Komodo King at the Shedd Aquarium, where it's absolutely reigning reptiles! Meet a six-foot crocodile monitor, six-inch green day geckos, a rainbow-hued panther chameleon, and that master of arboreal camouflage, the Fiji banded iguana—just a few of the more than 25 stunning species on display. Of course, you can't miss Faust, the majestic eight-foot Komodo dragon. One look at this lordly lizard and you will believe in dragons! *Lizards* and the Komodo King runs through Feb. 28, 2007 at the Shedd Aquarium. For more information, visit [www.sheddaquarium.org](http://www.sheddaquarium.org) or call 312.939.2438.

## The Field Museum

1400 South Lake Shore Drive  
Chicago, IL 60605-2496  
312.922.9410  
[www.fieldmuseum.org](http://www.fieldmuseum.org)

The Field Museum salutes  
the people of Chicago for their  
generous support  
of the Museum through the  
Chicago Park District.

# Strengthening University Ties

The Field Museum is a leader in studying evolutionary biology and explaining it to the public. *Gregor Mendel: Planting the Seeds of Genetics* (Sept. 15–April 1, 2007) tells the story of a scientific pioneer and how he discovered the rules of biological inheritance. Our new permanent exhibition, *Evolving Planet*, uses the fossil record and genetic research to explore the history of life on Earth. Behind the scenes in our Pritzker Laboratory for Molecular Systematics and Evolution, Museum scientists are achieving outstanding results as they delve into the genetic detail of evolution and build on the knowledge already gained by the study of morphology. The molecular world is adding an entirely new dimension to natural history.

It's an exciting time to announce that Neil L. Shubin, PhD, one of the world's leading evolutionary biologists, has agreed to lead The Field Museum's academic department by serving as provost. He succeeds Robert D. Martin, PhD, who will move to full-time research as the Museum's A. Watson Armour Curator of Biological Anthropology.

Dr. Shubin will divide his time between the Field and the University of Chicago where he serves as associate dean for organismal and evolutionary

biology. He recently made headlines around the world with the discovery of a 375-million-year-old fossil that represents a "missing link" between fish and land animals. James Madara, MD, PhD, dean Biological Sciences Division and the Pritzker School of Medicine and vice president for medical affairs at the U of C, says Dr. Shubin is "ideally suited to pull together the strengths of both organizations."

Dr. Shubin's appointment deepens the long-standing relationship between the Museum and the U of C. Decades ago The Field Museum acquired the natural history collections formerly housed at the university's Walker Museum. Many of our scientists teach

at the U of C and serve on the joint Committee on Evolutionary Biology. We have enjoyed successful partnerships with the university's Smart Museum and Oriental Institute. The appointment of Dr. Shubin will help further expand our access to the university's capabilities. The Field Museum also has built important relationships with other area universities including the University of Illinois at Chicago and Northwestern. With strong ties to these institutions, we have a solid foundation on which to build.

*Neil Shubin, PhD, (above) has been named provost of The Field Museum.*



DAN DRY

## Museum Names Two New Trustees

John A. Canning Jr., chairman of The Field Museum's governance committee, and Miles D. White, chairman of the Museum's board of trustees, recently announced the appointment of two new trustees: **JOHN R. ANDERSON** (below, top), senior partner of Anderson Enterprises, a holding company, and Spring Creek Partners, a venture capital firm with offices in Rockford;

and **W. JAMES McNERNEY JR.**

(left, bottom), chairman, president and chief executive officer of the Boeing Company. They will serve three-year terms. The appointments further strengthen the board, and the skills of the new trustees will help promote the mission of The Field Museum.



COURTESY OF JOHN ANDERSON



COURTESY OF THE BOEING CO.

*John W. McCarter, Jr.*

**John W. McCarter, Jr.**  
President and CEO



# Gregor Mendel: Planting the Seeds of Genetics

## “Modern Mendels” Work in Museum’s Pritzker Lab

Why do people typically resemble their parents? Why are many illnesses passed from one generation to the next? Today we know that genes provide the answers to these questions. But in the mid-1800s, genes had yet to be discovered and the laws of biological inheritance were still a mystery.

That’s when Gregor Mendel, an Augustinian friar, began experiments with plant hybrids at an abbey in Brno, in the Austro-Hungarian Empire (now in the Czech Republic). Mendel reported the results of his work in 1865—offering an insightful sketch of how an organism’s physical traits are passed along to offspring.

Mendel was one of the first scientists to use rigorous experiments and mathematical analysis as a means of interpreting the results of biological inquiry. His methods were so advanced and results so groundbreaking that other scientists of his time did not understand the importance of his work. Mendel died in 1884. Years later, at the turn of the century, his research was rediscovered and confirmed.

Today, Mendel is considered the Father of Genetics, although the details of his experiments are little known and often misunderstood. The Field Museum will help rectify that when it opens the exhibition *Gregor Mendel: Planting the Seeds of Genetics* on Sept. 15. This innovative exhibition, developed by The Field Museum, tells the story of how Mendel came to crack some of science’s toughest mysteries. The exhibition also traces the rise of genetics through its major milestones—from the discovery of chromosomes to the DNA double helix—and shows how scientists today are using genetics to tackle questions in evolution, conservation, and crop cultivation.

## Modern Mendels

Both Dr. Hackett and Dr. Feldheim are featured in a section of the exhibition that highlights the work of “modern Mendels,” contemporary scientists who use Mendel’s findings and their knowledge of genetics to learn about the

world around them. Some of this research includes applying genetics in crop cultivation, studying origins and genealogy, mapping genomes, and even solving new mysteries of heredity.

Dr. Hackett is working on a major, multi-institutional effort to determine the evolutionary relationships among major lineages of birds. Dr. Feldheim studies sharks and has learned much about their mating behavior through DNA research. Many other Field Museum scientists conduct genetics-based research.



JOHN WEINSTEIN/6190809\_37D

*Mendel* incorporates four videos and 10 hands-on activities to make the fundamentals of genetics accessible to everyone. Visitors can recreate Mendel’s experiments in six easy steps, compare what scientists saw through microscopes in different eras, and use DNA to place birds on their family tree. The exhibition reveals Mendel’s dramatic story through approximately 100 objects, including Mendel’s botanical specimens, scientific instruments, correspondence, original manuscripts, books—and yes, gardening tools. Because Mendel was not recognized for his brilliant work during his lifetime, very few of his papers or personal possessions still exist. This exhibition will display most of what survives. The exhibition’s life-size photo murals illustrate changes in the scientific environment over the last 150 years.

A highly unusual and innovative feature of the exhibition is the integration of contemporary works of art that explore the subject of genetics.

These works reflect the spirit of inquiry and creativity that inspires scientific research as well as art.

*Gregor Mendel: Planting the Seeds of Genetics* was developed by The Field Museum in partnership with The Vereinigung zur Förderung der Genomforschung in Vienna, Austria, and the Mendel Museum in Brno, Czech Republic. The exhibition runs through April 1, 2007. It then will travel to four other U.S. cities. **ITF**

Chicago Sponsor: Monsanto Company

## Mendel’s Breakthrough

How did Mendel do it? Through painstaking research that meticulously followed the scientific method: observation, hypothesis, prediction, experimentation, and conclusions. For eight years, he grew generation after generation of pea plants and carefully observed the results. Over the course of these experiments, Mendel grew an estimated 28,000 pea plants, generating a huge quantity of data. He hypothesized that all plants and animals have certain “elements” (now called genes) that account for the transmission of physical traits from parents to offspring. From his studies, Mendel derived certain basic laws of heredity: hereditary factors do not combine, but are passed intact; each member of the parental generation transmits only half of its hereditary factors to each offspring (with certain factors dominant over others); and different offspring of the same parents receive different sets of hereditary factors.

Charles Darwin, a contemporary of Mendel’s, was unaware of Mendel’s research. However, the underpinnings of Darwin’s theory rested on the understanding of inheritance that Mendel’s work provided. Their theories have since been unified into what is now called evolutionary biology—a cornerstone of modern science.

“*Mendel* presents an exciting opportunity to broaden people’s understanding of genetics beyond human diseases and the human genome project into the realm of natural history and modern evolutionary biology,” said Shannon Hackett, PhD, curator in the bird division of The Field Museum’s Department of Zoology.

‘Without Mendel’s discoveries, evolutionary biology wouldn’t have its foundation.’

Kevin Feldheim, PhD, manager of The Field Museum’s Pritzker Laboratory for Molecular Systematics and Evolution, added, “Without Mendel’s discoveries, evolutionary biology wouldn’t have its foundation. Although we use more sophisticated tools and analyses, we are still applying Mendel’s ideas to today’s genetic research.” (Learn more about the Pritzker Lab on page 9.)

*This page: Shannon Hackett, PhD, is one of The Field Museum’s “modern Mendels.” She studies the evolution of birds.*

*Opposite, left: Mendel’s pruning and grafting tools.*

*Opposite, center: Among Mendel’s books was this 1867 copy of Wonders of the Invisible World, by Gustav Jäger.*

*Opposite, top right: A box containing botanical specimens dating from Mendel’s time.*

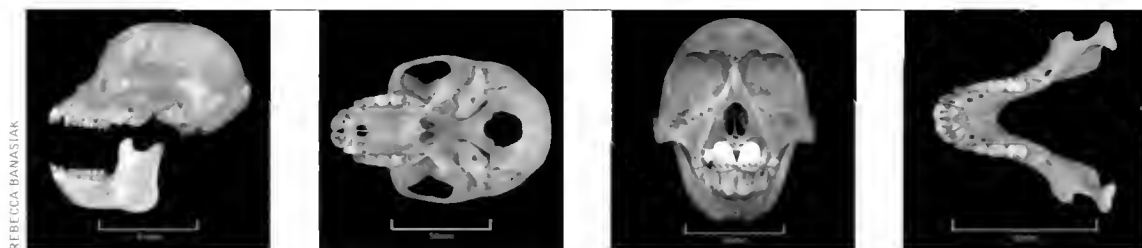
*Opposite, bottom right: Slides used by Mendel in his research.*



## Collection Key to Discovery of New Genus A Conversation with Bill Stanley

By Stephanie Lee, Writer

Questions about taxonomy and biology are often addressed at multiple levels—for example, by analyzing an organism's DNA and its morphology. When a new monkey was found in Tanzania, its DNA placed it close to other members of the primate family tree. Then, Bill Stanley, The Field Museum's Negaunee Collection Manager of Mammals, compared the monkey's skull with specimens in our collection and saw that it did not have key anatomical traits common to baboons. Thus, Stanley and his colleagues concluded that the monkey represents a new genus—a higher classification than species (a genus can contain several related species.) Recently, Stanley talked to *In the Field*.



**ITF:** How did this discovery come about?

**Stanley:** A couple of years ago, a friend of mine, Tim Davenport [PhD], who works for the Wildlife Conservation Society and founded the Southern Highlands Conservation Programme in the Mount Rungwe area of Tanzania, noticed an unusual primate, one that didn't look like any other he had seen before—it was a monkey with a big “mohawk” of spiky hair on the crown of its head, gray-brown fur on its body, off-white hair on the belly and on the tip of its long, curved tail. The more he observed and the more research he did, the more he suspected he was observing a new species. Later, Tim went to a café and began talking to another independent researcher who had been working in the Ndundulu Forest Reserve. Each researcher began describing the unusual monkey he had seen and eventually it became clear that they were talking about the same type of monkey! The Ndundulu team had already submitted a paper to the journal *Science* describing the monkey. That paper was retracted so that the two research teams could submit a new paper together—with more complete information.

The article appeared in *Science* in May, 2005 and it described the new species, *Lophocebus kipunji* [commonly referred to as *Kipunji*]. However, the description was based on a photograph—not an actual specimen. There are rules in zoology that exist so that scientists go about naming species in a congruent way. One rule states that you need a *holotype*—a specimen that is representative of the species being described. The researchers had not collected a specimen to serve as the holotype, because of the possibility that the new monkey might be endangered. So in this case, the description was based on a photograph because it showed all the physical traits that allowed it to be differentiated from all other species of primate. The fact that this new species was known only from a photograph left many questions unanswered.



Above, left: Bill Stanley holds the skull of the monkey that represents a new genus.

Above, right: At first, scientists could study only photographs of the monkey, which was found on Mt. Rungwe in Tanzania.

Opposite: By comparing its skull with specimens in the Museum's collection, Stanley realized he couldn't place the monkey in any existing genus.



TIM DAVENPORT

**ITF:** What did the genetic analyses show?

**Stanley:** The tissue samples we had were analyzed and then compared to the genetic data of other monkeys to determine the relationship among various primate species. We thought the analyses would show that the monkey was related to other primates in the genus *Lophocebus*. But we found that this new monkey was more closely related to

baboons, in the genus *Papio*.

Meanwhile, Eric flew to Chicago, and he and I compared the *Kipunji* skull with other primate skulls in The Field Museum's collections. We found that the skull did not have three characteristics that are typical in baboons—an extended snout, depressions in the lower jaw, and a particular kind of depression under the eye sockets. Suddenly, we

realized we couldn't place it in any existing genus! Our specimen was not a baboon and it wasn't like other monkeys, so we had to put it in its own genus, which we named *Rungwecebus*, after Mt. Rungwe, the mountain where the monkey was found. Our results were published by *Science* this year in the May 11 online *Science Express*.

'If we had relied on DNA analysis alone, we would have come to a completely different conclusion...'

**ITF:** What did you learn from this experience?

**Stanley:** To discover a new genus of monkey is exciting, because it shows that the Age of Discovery is not over. Also, this is a striking example of the importance of collections. If we had relied on DNA analysis alone, we would have come to a completely different conclusion than we did by analyzing both the DNA and the observations of the skull. We could not have analyzed the skull without the extraordinary set of primate specimens housed in the Barbara E. and Roger O. Brown Primate Collection here at The Field Museum. **ITF**

**ITF:** How did you come into the story?

**Stanley:** I was working in Tanzania when I received a text message from Tim saying that a *Kipunji* monkey had died in a farmer's trap. Finally, the researchers had a specimen! Tim wanted me to come and help preserve it. I couldn't get there right away, so it was frozen until I could arrive. I eventually joined Tim and the other biologists. We dissected the monkey and took tissue samples, some of which we deposited in Tanzania and the rest we brought back to The Field Museum.

**ITF:** An international collaboration of scientists contributed to this discovery. How did scientists from around the globe become involved, and what was it like working with them?

**Stanley:** We depended on the combined expertise and independent research of a diverse group of individuals to gather and analyze the data we needed to come to our conclusions. We brought in the morphological expertise of Eric Sargis [PhD], a primatologist in the Anthropology Department at Yale University, and Field Museum Research Associate Link Olson [PhD], now at the University of Alaska Museum, to do the DNA analysis. The two Tanzanian biologists involved in the study are the world's experts on the ecology of the *Kipunji* of Mt. Rungwe. So our collaboration spanned much of the globe: from the tropical forests of Rungwe in Tanzania, to the freezing snows of Alaska, we all worked together to make this discovery.

# City Asks Museums to Step Up to the Environmental Plate

By Tiffany Plate, Writer

On May 31, the leaders of Chicago's 10 Museums in the Park—including The Field Museum, Adler Planetarium, Art Institute, Chicago History Museum, Du Sable Museum, Mexican Fine Arts Center Museum, Museum of Contemporary Art, Museum of Science and Industry, Peggy Notebaert Nature Museum, and Shedd Aquarium—gathered to honor each other's work in the Chicago Green Museum Program. Mayor Richard M. Daley hosted the event, along with the Department of the Environment, to celebrate the first year of the program. The message of the Chicago Green Museums program is clear: as educational institutions, museums have a unique opportunity to become leaders in the environmental charge, and to communicate to the public the importance of thinking green.



JOHN WEINSTEIN/90606 130

*The Field Museum has installed rooftop solar panels to help its energy efficiency.*

"Millions of people from all over the country walk through these institutions every year. Thousands of school children are educated and inspired by exhibitions and outreach," commented Mayor Daley. "We must prepare our youth for the future. And a very

important part of that future involves keeping our environment clean and sustainable for generations to come. Let's give our children the education and resources that will allow them to respect the environment," he continued.

Mayor Daley has made being green a priority for the city, and this newest museum-based project is a logical next step in educating Chicagoans and visitors about environmentalism. The first major goals of the project are to increase energy efficiency in the institutions' capital improvement projects, make "green procurement" a standard by making it cost-effective to buy non-toxic products that conserve resources, and educate visitors through specialized events or environmentally themed exhibits.

The Field Museum's mission of protecting biodiversity and conserving Earth's resources makes it an ideal vehicle for spreading this message. Our recent environmentally themed exhibitions, outreach programs, and capital improvements projects have also greatly increased our eco-friendliness. Rooftop solar panels, fluorescent lighting, energy-efficient boilers and chillers, as well as Museum-wide recycling of paper, cardboard, glass, and plastic have all made the Field a model for the cause.

This fall the Museum of Contemporary Art (MCA) is also taking up the charge, with the opening of *Massive Change: The Future of Global Design* (Sept. 16–Dec. 31). The exhibition celebrates the human capacity to change the world and is a call to recognize both the power and responsibility of design. *Massive Change* aims to change the way we think about design and the very nature of life itself. The MCA has made the ideas expressed in *Massive Change* a reality by initiating its own sustainable projects, including improved sorting of recyclables, a proposed installation of wind turbines on the museum's roof, and a weekly farmers' market in the summer that supports local, organic growers.

As the MCA's and The Field Museum's green teams work to create more environmentally friendly museums, the city's network is putting the staffs of the Museums in the Park in touch with each other to share best practices. The city is facilitating new grant-funded projects that will serve all the museums, and helping to bring the environmental discussion to the forefront. **ITF**

## FIELD MUSEUM–MCA COLLABORATIONS

Don't miss other collaborations between the Field Museum and the MCA.

The museums are co-producing a public dance exchange movement class (see *Your Guide to the Field* for details) and a professional development workshop for teachers that will create connections between the exhibitions *Gregor Mendel: Planting the Seeds of Genetics* and *Massive Change: The Future of Global Design*.

The *Massive Change* exhibition and tour is a project by Bruce Mau Design and the Institute without Boundaries, commissioned and organized by the Vancouver Art Gallery. The Chicago presentation is generously sponsored by Target.

TO LEARN MORE ABOUT CHICAGO'S INITIATIVES, CHECK OUT THE MAYOR'S ENVIRONMENTAL ACTION AGENDA AT [WWW.CITYOFCHICAGO.ORG/ENVIRONMENT](http://WWW.CITYOFCHICAGO.ORG/ENVIRONMENT)

# YOUR GUIDE TO THE FIELD

INSIDE > EXHIBITIONS FESTIVALS FAMILY PROGRAMS ADULT PROGRAMS

## Programs at a glance

### DETAILS INSIDE!

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Overnights 9/8 & 9/15, 11/24  
Mola Textile Demonstration 9/9  
Cuatro Performance 9/9  
Mazon Creek Fieldtrip 9/16  
DNA Discovery Days 9/16 & 9/17  
Behind-the-Scenes Evening 9/22  
Mundillo Lace Demonstration 9/30  
Meet King Tut Workshop 11/4

#### ADULT PROGRAMS

Chicago Geology Course/  
Fieldtrip 9/13, 9/20, & 9/30  
Unraveling Mendel's Legacy Lecture 9/16  
Three Cosmic Tenors Lecture 9/24  
Making of the Fittest Lecture 9/30  
Ceremonial Centers Lecture 9/30  
Nubia Symposium 10/7  
Tut's Tomb and its Treasures Course  
10/7–11/18  
1491 Lecture 10/19  
Botanical Illustration Course 10/21 & 10/28  
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#### NATIONAL GEOGRAPHIC LIVE!

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Maya Gods & Kings:  
The Mural of San Bartolo 10/25  
Exploring Mars:  
Rovers of the Red Planet 11/15  
A Camera, Two Kids, and a Camel 12/6

## New Exhibition!

SEPTEMBER 15, 2006–APRIL 1, 2007

Meet the brilliant, 19th-century friar who became the father of modern genetics. Recreate Mendel's famous pea experiments to discover the laws of heredity for yourself, understand the basics of genetics, and meet modern Mendels—scientists on the cutting edge of this field today.



GREGOR  
MENDEL

Planting the Seeds of Genetics

This exhibition and its North American tour were developed by The Field Museum, Chicago, in partnership with The Vereinigung zur Förderung der Genomforschung, Vienna, Austria, and The Mendel Museum, Brno, Czech Republic.

Chicago Sponsor: Monsanto Company

PEA ILLUSTRATION COURTESY OF ROYAL BOTANIC GARDENS, KEW

## Featured Lecture

### Unraveling Mendel's Legacy

*Simon Mawer, Author*

Trace the history of genetics, from its founding up to today's critical genetic research. Mawer—a celebrated fiction writer and biology teacher—has extensively studied Mendel's life and experiments, and will provide an engaging account of Mendel's influence on modern research. Mawer is also the author of the exhibition's companion volume, *Gregor Mendel: Planting the Seeds of Genetics*, and will be available for book signing after the lecture.

SATURDAY, SEPT. 16, 2PM

\$16, students/educators \$14, members \$12

Mr. Mawer's appearance was made possible by the generous support of Restaurace JAMA, Praha, Czech Republic.

The Field Museum thanks the Prague Committee of the Chicago Sister Cities International Program for their generous support of this program.



COURTESY OF SIMON MAWER

The Field  
Museum

GENERAL MUSEUM INFORMATION: 312.922.9410

FAMILY AND ADULT PROGRAM TICKETS AND INFORMATION: 312.665.7400

**Please note:** Refunds will be issued by Field Museum staff, minus a \$10 processing fee, for group and family overnights only. No refunds or exchanges are permitted for any other programs. Fees for programs cancelled by The Field Museum will be refunded in full.

# Decode Mendel's genius

See how modern scientists are using Mendel's legacy to learn more about life on Earth. From activity stations to art lessons, there's something for everyone!

## DNA Discovery Days

Celebrate the exhibition opening with special Scientists at the Field demonstrations, an interactive Interpretive Station, and a Story Time presentation with Cheryl Bardoe, author of the new children's book *Gregor Mendel: The Friar Who Grew Peas*.

SATURDAY & SUNDAY, SEPT. 16 & 17, 11AM-2PM

Free with Museum admission



JOHN WEINSTEIN/NOBOD

## Family Behind the Scenes

### Pritzker Lab of Molecular Systematics and Evolution

*Dr. Kevin Feldheim, FM Pritzker Lab*

Take a behind-the-scenes tour of the Pritzker Lab, where scientists from around the world are studying the DNA of plant and animal species. Learn how scientists discover new species, and try your hand at extracting DNA from a shark fin! For families with children ages 7-12.

FRIDAY, SEPT. 22, 6-8PM

\$15, members \$12

## Adult Lecture

### The Botany of Desire: A Plant's-Eye View of the World

*Michael Pollan, Author*

Come hear celebrated author Michael Pollan discuss his best-selling book *The Botany of Desire: A Plant's-Eye View of the World*, and get a better understanding of the complex relationship between humans and plants.



COURTESY OF MICHAEL POLLAN

SATURDAY, NOV. 11, 2PM

\$20, members \$18;

CPDU's available

## Adult Class

### Botanical Illustration

*Marlene Hill Donnelly, FM Dept. of Geology*

Explore the delicate beauty of some of Mendel's most important experimental subjects through the basics of botanical illustration. Learn how to utilize close observation to create beautiful and accurate drawings from live plants and Museum replicas. All levels welcome.

SATURDAYS, OCT. 21 & 28, 9AM-4PM

\$56, members \$45



JOHN WEINSTEIN/NOBOD



# Celebración: Latin Heritage Festival

Learn more about the vibrant music and artistic traditions of Latin America.

*All events are free with Museum admission.*

## Mola Textile-Making Demonstration

*Irvia Vivar, Mola artist*

Experience the beauty and artistry of the Mola, a textile-making craft that's been handed down through generations of Panamanian women. Vivar, a Kuna Indian, will share how her Mola craft reflects a synthesis of traditional Kuna culture with contemporary themes.

**SATURDAY, SEPT. 9, 11AM–2PM**

## Family Performance

*Puerto Rican Cuatro Ensemble*

Discover the wonders of vibrant Cuatro music—an important creative expression that highlights feelings of pride and community among Puerto Ricans.

**SATURDAY, SEPT. 9, 2PM**



## Special Artists at the Field

*Nellie Vera, Artist*

See the intricate processes through which Puerto Rican craftspeople like Vera have been making sumptuous Mundillo lace for centuries. You'll learn more about Moca, "the capital of lace" on the southwestern coast of Puerto Rico, and how this painstaking lacework has

been commissioned by aristocrats and collectors alike.

**SATURDAY, SEPT. 30, 11AM–2PM**



## Adult Symposium

### Nubia and Egypt: Neighbors on the Nile

*Dr. James Phillips, Dr. Chap Kusimba, FM Dept. of Anthropology; Dr. Bruce Williams, Oriental Institute; Dr. Stuart Tyson Smith, University of California, Santa Barbara*

Examine the complexities of Nubian culture, kingship, and its relations to ancient Egypt. Hear about the recently renovated Nubia exhibition at the Oriental Institute, and get an insider's glimpse into current archaeology in Nubia.

**SATURDAY, OCT. 7, 1–4PM**

*\$16, students/educators \$14, members \$12*



## Lecture

### Ceremonial Centers of the Caribbean

*Dr. Antonio Curet, FM Dept. of Anthropology*

Follow Dr. Curet as he travels to southern Puerto Rico in search of clues about the earliest ceremonial center of the Caribbean. Curet is studying the site to discover the evolution of the social organization and economy of domestic groups in ancient Puerto Rico.

**SATURDAY, SEPT. 30, 2PM**



## Family Overnights

### Dozin' With The Dinos

Sue the T. rex is having a sleepover! Join us for a night of family activities, tours, and performances, then spread your sleeping bag amid some of our most popular exhibitions. The event includes an evening snack and breakfast. For families with children ages 6–12.

FRIDAYS, SEPT. 8, 15, & NOV. 24

5:45PM IN THE EVENING UNTIL 9AM THE FOLLOWING DAY

\$47, groups \$42, members \$40

CATHRYN C. MONTYVAGN90713.5C



## Family Workshop

### Meet King Tut

See the boy king in a whole new light! Take a tour of Tutankhamun and the Golden Age of the Pharaohs and learn fascinating ancient mummification techniques. Then travel to the Oriental Institute, where you'll make your own version of Tut's golden royal headdress and get your picture taken alongside the OI's colossal ancient statue of King Tut. For families with children ages 6–12.

SATURDAY, NOV. 4, 10AM–2:30PM

\$34, members \$29 (includes admission to museums and special exhibitions; please bring a lunch)

## In partnership with the Museum of Contemporary Art

### Liz Lerman Dance Exchange Movement Class

*Museum of Contemporary Art*

Learn how to stimulate the brain and the body through dance! Follow these experts who created the dance "Ferocious Beauty: Genome" in partnership with genetic scientists, with performances at the MCA Sept. 28–30. For families with children 8 years and older.

SATURDAY, SEPT. 30, 2PM

Free, but pre-registration is required. For tickets and more information please call the Museum of Contemporary Art Box Office at 312.397.4010.



MICHAEL MAZZOLA

## Adult Lecture

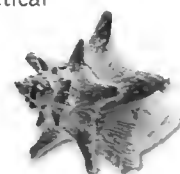
### Three Cosmic Tenors: Exploring the Frontiers of Matter, Energy, Space & Time

*James Gates, University of Maryland; Larry Gladney, University of Pennsylvania; and Herman White, Fermi National Accelerator Laboratory*

Explore today's energy frontier with our three cosmic tenors. These scientists' songs speak to us of how theoretical models and the use of technology will help us understand the fundamental nature of energy. Their concert will be a harmonious presentation of ideas from different scientific perspectives.

SUNDAY, SEPT. 24, 2–4:30PM

Free, but pre-registration is required for this event. Please call 312.665.7400 to reserve your space.



Gregor Mendel: Planting the Seeds of Genetics

OPENS SEPTEMBER 15, 2006

Cheyenne Visions

OPENS NOVEMBER 17, 2006



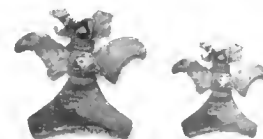
Tutankhamun and the Golden Age of the Pharaohs is an exhibition from National Geographic. Organized by Arts and Exhibitions International and AEG Exhibitions in association with The Supreme Council of Antiquities of Egypt and The Field Museum.

Tour Sponsor: Northern Trust

Chicago Sponsor: Exelon, Proud Parent of ComEd

## Family Workshop

### Two of Us



Join us in one of these four-week excursions through the wonders of The Field Museum! You and your little one will travel the

Museum's exhibition halls, sing songs, hear stories, touch objects, and make art projects. Ideal for homeschoolers! Choose from one or more of the sessions to the right.



EMILY PLATE

## Adult Course

### Advanced Chicago Geology

*Dave Dolak, Columbia College*

Join this combination class and fieldtrip especially for adult amateur geologists! Learn and practice field techniques, then try them out at site visits to the Chicago Portage, Palos Hills, Camp Sagawau Forest Preserve, and Mazon Creek.

WEDNESDAYS, SEPT. 13 & 20, 6-9PM;

FIELDTRIP: SEPT. 30, 8AM-4PM

\$95, members \$85

FM



## Adult Course

### Tutankhamun: His Tomb and Its Treasures

*Dr. Emily Teeter, Oriental Institute*

Unearth the magnificent objects found in the tomb of Tutankhamun, from his royal scepters and ritual regalia to funerary shrines and coffins. You'll learn about their symbolism and function, then examine the rediscovery of the tomb through visits to permanent galleries and special exhibitions at the Oriental Institute and The Field Museum.

SATURDAYS, OCT. 7, 14, 21, 28, 10AM-NOON AT OI

SATURDAYS, NOV. 11 & 18, 10AM-NOON AT FM

\$214, FM and OI members \$184

Register through the Oriental Institute 773.702.9507

## Adult Lecture

### 1491: New Revelations of the Americas Before Columbus

*Charles Mann, Author*

Journey back in time to an American land you've never known. Mann will discuss his best-selling book, which traces the "pre-history" of the Americas and debunks myths about the first inhabitants of this land. You'll learn about the sophisticated cities of the Aztecs, the agricultural advances of pre-Columbian Indians in Mexico, then hear how the Field's own anthropological research is contributing to this story. Books will be available for purchase and signing after the lecture.

THURSDAY, OCT. 19, 7PM

\$8, students/educators \$7, members \$6



**The Auschwitz Album: The Story of a Transport**

EXTENDED THROUGH OCTOBER 15, 2006

**Tutankhamun and the Golden Age of the Pharaohs**

THROUGH JANUARY 1, 2007

**Egypt:** Explore ancient Egypt and the reign of King Tut.  
TUESDAYS, SEPT. 5-26, 10-11AM  
(NOTE: DOES NOT INCLUDE TICKETS TO TUTANKHAMUN)

**Folklore and Rituals:** Explore the ways different cultures around the world celebrate fall festivals like Halloween.  
TUESDAYS, OCT. 10-31, 10-11AM

\$32, members \$27

For each 3-5 year old child with paid attendance,  
one parent or adult chaperone attends for free.

## Family Fieldtrip

### Fossil Hunt at Mazon Creek

Dave Dolak, Columbia College

Get out your hiking boots and join us for a fossil hunt at the world-famous Mazon Creek site. Plan on a one-quarter mile walk to fossil locations. For families with children ages 8-17.

SATURDAY, SEPT. 16, 8AM-3PM

\$40, members \$30

FM/KATHLEEN DONOFRIO



## Evolving Science Lecture

### The Making of the Fittest

Dr. Sean Carroll, Howard Hughes Medical Institute  
and University of Wisconsin-Madison

Investigate how all of evolution's adaptations involve a change in DNA, providing us with an outstanding record. See how biologists are mining this record to understand how species have adapted to the planet's varied and diverse habitats. From fish that live in sub-freezing water to birds that communicate in ultraviolet colors, you'll get a new understanding of how the fittest are made.

SATURDAY, SEPT. 30, 2PM

Free with Museum admission



COURTESY OF SEAN CARROLL

## Fieldtrip

### Experience Thornton Quarry

Dave Dolak, Columbia College

Get a behind-the-scenes look at one of the world's largest exposed fossil reefs in this giant limestone quarry.

Tour the active quarry operations then collect fossils of the organisms that lived on a coral reef in Illinois 420 million years ago, including trilobites, cephalopods, brachiopods, and crinoids.

SATURDAY, OCT. 7, 8:30AM-2PM

\$65, members \$55

Adults only, please. Space is limited. Please register by June 20.

FM/KATHLEEN DONOFRIO



## Adult Lecture

### Investigating Tsavo's Legendary Lions

Bruce Patterson, Curator of Mammals, FM Dept. of Zoology

Uncover the mysteries of Kenya's Tsavo region, where Patterson and his colleagues are collecting data to explain why the area's lions are maneless. Come find out how citizen scientists from all walks of life are studying these unusual animals and helping to write a new chapter for the King of Beasts.

SATURDAY, NOV. 25, 1:30PM

Free with Museum admission

BRUCE PATTERSON



**Eskimo and Inuit Carvings:  
Collecting Art from the Arctic**  
THROUGH JUNE 17, 2007

**Impressions of Tsavo**  
THROUGH JULY 7, 2007



NATIONAL  
GEOGRAPHIC

# LIVE!



COURTESY OF BEVERLY JOUBERT

## Relentless Enemies: Lions and Buffalo

*Dereck and Beverly Joubert,  
Naturalists and Filmmakers*

Get a glimpse into the daily life of this daring duo that has made the African wilderness their home for the last 25 years. Hear tales of life-and-death struggles—played out against a backdrop of breathtaking landscapes—from their new book detailing the ongoing battle between the majestic lions and massive buffalo of Botswana's Okavango Delta.

WEDNESDAY, OCT. 4, 7:30PM

## Maya Gods & Kings: The Mural of San Bartolo

*William Saturno, Archaeologist*

Examine one of the greatest Maya finds of all time—a chance discovery by Saturno's team in Guatemala in 2001. This breathtakingly well-preserved mural, dating to 100 BCE, shines new light on the religion and political structure of the preclassic Maya civilization.

WEDNESDAY, OCT. 25, 7:30PM



KENNETH GARRETT

## Series Subscriptions > On Sale Now!

**Explorers Circle:** Ensure the continuation of National Geographic Live! These limited-run tickets include free parking in the west lot or vouchers for free North Garage parking; prime reserved seating; a private reception with Dereck and Beverly Joubert prior to the October 4 event and signed copy of their book; acknowledgement of your support of the series in each program; and \$150 of ticket price is tax-deductible. \$360; TFM, NG and Geographic Society of Chicago members \$350.

**Patron** (reserved seating): \$110; TFM, NG and Geographic Society of Chicago members \$100.

**General admission:** \$84; TFM, NG and Geographic Society of Chicago members \$70; educators/students \$48.

Travel to the wilds of Africa, the surface of Mars, even back to the time of the Maya with these dynamic men and women. They'll share brilliant photographs and compelling stories in each of the four sessions of the fall series.

## A Camera, Two Kids, and a Camel

*Annie Griffiths Belt, Photographer*

Go behind the lens with this master photographer as she shares her experiences in Africa, among the women of the Arab world, and other places where her camera has been her passport. With her two children in tow, Belt has been able to find common ground with her subjects through her experiences as a mother, helping her to immerse herself in other cultures.

WEDNESDAY, DEC. 6, 7:30PM



ANNIE GRIFFITHS BELT

## Exploring Mars: Rovers of the Red Planet

*Kobie Boykins, Space Engineer*

Journey to the surface of Mars with this young engineer who helped design the Expedition Rovers, Spirit and Opportunity. Still drawing energy through solar panels designed by Boykins, the rovers are working to examine rocks and soils that might contain evidence of the past existence of water on the Martian surface.

WEDNESDAY, NOV. 15, 7:30PM



COURTESY OF NASA

## Individual Events > On Sale mid-September

**Patron** (reserved seating): \$30; TFM, NG and Geographic Society of Chicago members \$28.

**General admission:** \$24; TFM, NG and Geographic Society of Chicago members \$22; educators/students \$15.

Educators—Student programs, teacher workshops, and online lesson plans are provided in conjunction with the series. For more information, go to [nationalgeographic.com/nglive](http://nationalgeographic.com/nglive) or call 312.665.7500.

National Geographic Live! Educational programs are made possible by the generous support of Plum Creek.

## Cultural Connections

Enjoy this year's intercultural dialogue among Chicago's ethnic communities on the theme of teaching.

For more information call 312.665.7474, or visit [www.fieldmuseum.org/ccuc](http://www.fieldmuseum.org/ccuc).



# Ponder the reaches of nature and humanity



JOHN WEINSTEIN/986428C

## Impressions of Tsavo

THROUGH JULY 7, 2007

Dazzling color photographs reveal the remarkable wildlife, landscape, and people of the Tsavo region in East Africa.

This exhibition was organized by  
The Field Museum.

COURTESY OF THE AMERICAN SOCIETY FOR YAD VASHEM



JOHN WEINSTEIN/114421.030

## The Auschwitz Album: The Story of a Transport

EXTENDED THROUGH OCTOBER 15

Striking black-and-white photographs taken by Nazi S.S. officers provide the only visual record of the arrival and imprisonment of Hungarian Jews in the Auschwitz-Birkenau concentration camp.

This exhibition was created by Yad Vashem, The Holocaust Martyrs' and Heroes' Remembrance Authority in Israel. The Field Museum presentation is made possible by the American Society for Yad Vashem.

Generous support has been provided by the Crown Family.

## Eskimo and Inuit Carvings: Collecting Art from the Arctic

THROUGH JUNE 17, 2007

Discover historic and contemporary carvings in stone and animal bone created by Eskimo and Inuit artists from Alaska and Canada.

This exhibition was organized by The Field Museum.

### Live Carving and Drumming Demonstration!

Come enjoy the true culture of art from Nunavut by seeing it created in front of your eyes by expert Arctic Canadian craftsmen.

FRIDAY-SUNDAY, OCT. 20-22, 11AM-1PM

*Free with Museum admission*

Sponsored by the Canadian Consulate General of Chicago.

## VISITOR INFORMATION



MIKE SIOREK

### GETTING HERE

Field Museum visitors can park in Soldier Field's parking garage. Visit [www.fieldmuseum.org](http://www.fieldmuseum.org) for information on parking lots/rates, free trolleys and public transit.

### HOURS

Summer hours are 8am-5pm daily. Last admission at 4pm. Hours are subject to change. Please consult the Museum's website for the most up-to-date information. Please note the Museum closes at 5pm even when an evening event is scheduled. Event participants will be asked to leave the building until 30 minutes before their event begins.

### ADMISSION AND TICKETS

For this special engagement of *Tutankhamun and the Golden Age of the Pharaohs*, members (except for Royal Tut and Tut at Twilight members) will be eligible to purchase exhibition tickets at a reduced rate of \$10 (versus \$25 for non-members). Family members are eligible for up to 4 discounted tickets; Individual, Senior and National Affiliate members are eligible for up to 2 discounted tickets; Student members are eligible for 1 discounted ticket. Tickets can be purchased by calling 312.665.7705 Monday-Friday from 8:30am-4:30pm or picked up at the Membership Services Desk at the South or East Entrance during your next visit. Royal Tut and Tut at Twilight Members should call 312.665.7929 to reserve their exhibition tickets. For more information, please visit [www.fieldmuseum.org/membership](http://www.fieldmuseum.org/membership).

For non-members, The Field Museum's gold pass, which includes general admission plus one of our other special exhibitions such as *Tutankhamun* or *Underground Adventure*, ranges in price from \$8 to \$25, depending on your age category and whether you are a Chicago resident. Please bring your ID to receive the appropriate ticket price. Tickets are available at the Museum's admission desks, or in advance via [www.fieldmuseum.org](http://www.fieldmuseum.org) or 866.FIELD.03. For all admission and ticket details, visit [www.fieldmuseum.org](http://www.fieldmuseum.org).

### ACCESSIBILITY

Visitors using wheelchairs or strollers may be dropped off at the new East Entrance. Handicapped parking and wheelchairs are available on a first-come, first-served basis. The West Museum parking lot is also available for handicapped parking on a first-come, first-served basis, and the West Entrance is also handicap-accessible. Call 312.665.7400 to check on the accessibility of programs that take place outside of the Museum.

### INFORMATION

312.922.9410 or [www.fieldmuseum.org](http://www.fieldmuseum.org)

The Field Museum salutes the people of Chicago for their long-standing, generous support of the Museum through the Chicago Park District. In addition, Museum programs are partially supported by a CityArts Program 4 Grant from the City of Chicago Department of Cultural Affairs and the Illinois Arts Council, a state agency.

In accordance with Title IX of the Education Amendments Act of 1972, we do not discriminate on the basis of sex in our programs or activities. Please call 312.665.7271 to contact our Title IX Coordinator in the human resources department should you have any questions or concerns.

## The 3730 Genetic Analyzer: Workhorse of the Pritzker Lab

The Field Museum's Pritzker Laboratory for Molecular Systematics and Evolution is a multi-user facility dedicated to the genetic analysis and preservation of the world's biodiversity. The Pritzker Lab provides scientists state-of-the-art equipment for the study of molecular biology. At the heart of the lab is the 3730, short for Applied Biosystem's 3730 Genetic Analyzer, a workhorse that processes countless pieces of DNA daily.



JOHN WEINSTEIN/GN90864\_06D

From sharks to mushrooms to birds, the 3730 helps scientists answer a multitude of questions. How is a flamingo related to a grebe? Which male sired that shark pup? How many species of fungi are in that soil sample? The methods used to address these questions are remarkably similar across projects. Essentially, scientists compare DNA among individuals, species, genera, or even at higher taxonomic levels.

Sequencing technology has made amazing strides.

As recently as the early 1990s, scientists labeled DNA with radioactive molecules, ran the radio-labeled DNA on a gel, and exposed the gel to film. This cumbersome method took several days and exposed researchers to potentially harmful radiation. Automated sequencers, like the 3730, produce results in about one day and forego radiation altogether.

Museum scientists working in the lab have covered the 3730 with good-luck charms, recalling the days when science and superstition were intertwined. But there's really nothing mysterious about the process of analyzing DNA. For instance, when analyzing animal DNA scientists first grind or chop small pieces of tissue. They add chemicals to break down cell membranes and proteins. Regular table salt is used to take proteins out of the solution, and then DNA is removed with alcohol. Scientists use one of four fluorescent dyes (green, blue, red, or yellow) to label the DNA. Next, the samples are loaded into the 3730 where they run through glass capillaries filled with a polymer matrix. Because DNA is negatively charged and will move towards a positive charge, the 3730 runs an electric current through the capillaries causing the DNA to migrate

through the polymer. Then a laser makes the dye molecules fluoresce and these fluorescent emissions are focused onto a charge-coupled device camera. Each dye has a different emission pattern enabling the 3730 to differentiate among the four colors. Scientists obtain a DNA pattern of different colors, called an electropherogram, which allows them to examine genetic relationships. Two organisms (even organisms that look very different) are closely related if the patterns of their electropherograms are similar. Thanks to the Pritzker Lab and equipment such as the 3730, Museum researchers are solving key questions about relationships among the diverse forms of life on Earth. **ITF**

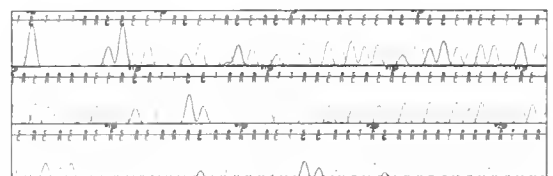


KEVIN FELDHEIM

*Above, top: Several scientists who conduct genetics-based research gather in the Museum's Pritzker Lab.*

*Above, bottom: Scientists have placed good-luck charms on top of the 3730.*

*Right: An electropherogram is a DNA pattern of different colors.*



KEVIN FELDHEIM

*Kevin Feldheim, PhD, manager of the Pritzker Laboratory for Molecular Systematics and Evolution, contributed to this Scientist's Pick.*

# Book Reports by Field Museum Authors

Compiled by Nancy O'Shea, Editor

When they aren't conducting field research, working in labs, training students, or planning exhibitions, many Field Museum staff members can be found tapping away on computer keyboards, writing publications that help share their knowledge. Here, nine Museum authors describe their books and tell why they were compelled to write them.



DIANE ALEXANDER WHITE/GN90828D 627

## CARIBBEAN PALEODEMOGRAPHY

BY L. ANTONIO CURET

(University of Alabama Press)

In this book, I review the uses of demography in Caribbean archaeology and propose more rigorous and promising ways in which demographic factors can be incorporated in our modeling of past human behavior. In the study of all cultures, population is an important variable used to explain many social, political, and economic processes such as migration, changes in subsistence systems, and the development of institutionalized social stratification. In the past, however, Caribbeanists have used population and other demographic variables in a casual and loose manner without considering many of the factors and processes involved in population dynamics. In my book, I analyze a number of demographic issues in island archaeology at various levels, including inter and intra-island migration, carrying capacity (the number of people that can be supported by natural resources



without detrimental impact to the environment), population structures (sex and age distribution, fertility, mortality, etc.), variables in prehistory, cultural changes, and the relationship between material culture and social development. I attempt to bring together the diverse theories on Greater Antilles island populations and the social and political forces governing their growth and migration. The book is intended to be used by archaeologists working in the Caribbean, but it could also be used as a case study for Caribbean archaeology or as a paleodemography textbook.

*L. Antonio Curet, PhD, is associate curator, Circum-Caribbean archaeology, Department of Anthropology, The Field Museum. To order his book by phone, call 800.621.2736 (reference ISBN 081735185X).*



Caribbean Paleodemography  
by L. Antonio Curet  
University of Alabama Press



JOHN WEINSTEIN/GN90396 41D

## IMAGES OF THE PAST

BY T. DOUGLAS PRICE AND GARY M. FEINMAN

(McGraw-Hill)

T. Douglas Price, PhD, (University of Wisconsin-Madison) and I published the first edition of *Images of the Past* in 1993 when we were co-teaching an introduction to archaeology class at the university level that focused on the human past. Over the years, we tried various texts, but none seemed to excite either our students or ourselves. Rather than try to be encyclopedic, we took a new tack when writing *Images*. We chose to emphasize only certain key discoveries (roughly 80 archaeological sites) that had produced major insights into the history of humankind. We also took a new approach to format and layout, presenting information in small sections

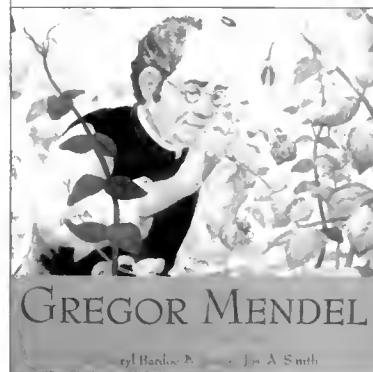
**GREGOR MENDEL: THE FRIAR WHO GREW PEAS**  
**BY CHERYL BARDOE**

(Abrams Books for Young Readers and The Field Museum)

I heard about Gregor Mendel because of The Field Museum's upcoming exhibition and I thought he would be a great a subject for a picture book biography. Because picture books use so few words, they force writers to focus on the essence of a story. And, this story has added power because it is rooted in the life of a real person. The heart of Gregor Mendel's story is his determined pursuit of knowledge and his ability to look at things in innovative ways. My book lets readers peek into the mind of this genius as he conducts his experiments. Readers can follow the steps of the scientific process and

discover the basic laws of heredity right alongside Mendel! I'm a graduate of the Medill School of Journalism at Northwestern University and have been writing children's books for about five years. This is the first book I've published. It's for children ages 6–10, so the younger ones will read it with adults while older children can read it to themselves. This book shows young readers how one man saw the natural world as full of mysteries that could be solved by hard work, creativity, and scientific study.

*Cheryl Bardoe is a senior project manager, Exhibitions Department, The Field Museum. Her book is available at bookstores and from The Field Museum's Main Store. To order online, visit <http://store.fieldmuseum.org/index.cfm>*



CATHRYN MONTAYA

**FUNCTIONAL ANATOMY OF THE VERTEBRATES:  
 AN EVOLUTIONARY PERSPECTIVE**

**BY KAREL F. LIEM, WILLIAM E. BEMIS,  
 WARREN F. WALKER JR., AND LANCE GRANDE**

(Harcourt College Publishers)

My colleagues Karel Liem, PhD, of Harvard University, Willy Bemis, PhD, now at Cornell University, Warren Walker, PhD, of Oberlin College, and I developed this college textbook for a university course in comparative anatomy. Comparative anatomy is becoming one of the most integrative fields in biology, especially as viewed within an evolutionary framework. It now includes descriptive anatomy, embryology, functional studies of structure, systematics, physiology, paleontology, behavior, and ecology. Even molecular studies now play into this fundamental field. By integrating all of these fields within an evolutionary context, we can much better understand the diversity and history of life. We wrote this volume to help enable students to conceptualize vertebrate form and function as well as the patterns of key anatomical characters that reveal evolutionary relationships among vertebrate animals. We include vertebrate species from over 400 million years ago to the present day, but focus mainly on living forms. The book has been very well received and has become one of the most widely used textbooks in universities around the country for teaching comparative anatomy. A fourth edition will be published this fall.

*Lance Grande, PhD, is curator, fossil fishes, Department of Geology, and vice president and head of collections and research, The Field Museum. To order his book, call 800.354.9706 (reference ISBN 0030223695) or visit the website [www.searchlearning.thomson.com/search](http://www.searchlearning.thomson.com/search)*

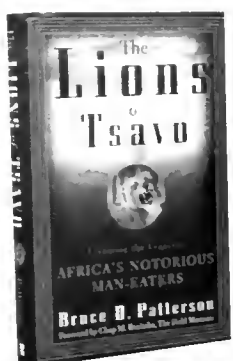
and short modules that were heavy on illustrations. To capitalize on our strengths, we divided up the writing according to our areas of knowledge and activity. Dr. Price has long studied ancient foraging peoples and the transition to farming, while I have focused on the emergence of civilizations and empires. Dr. Price has led investigations principally in Europe, and I have conducted fieldwork in the Americas and China. From the outset, *Images of the Past* has been popular at universities and community colleges. The fourth edition of our text is presently in print and available on college campuses across

the country. We eagerly anticipate the unveiling of the fifth edition by McGraw-Hill this fall.

*Gary Feinman, PhD, is curator and chair, Department of Anthropology, The Field Museum. His book may be purchased by calling 800.262.4729 (reference ISBN 007299634X).*



JOHN WEINSTEIN/GN90685 04D



JOHN WEINSTEIN/NG90685 04D

**THE LIONS OF TSAVO**  
**EXPLORING THE LEGACY OF AFRICA'S NOTORIOUS MAN-EATERS**  
**BY BRUCE D. PATTERSON**  
 (McGraw-Hill)

For most of my career, I've studied small mammals like chipmunks or wood mice. Half of all living mammal species are rodents and nearly half the remainder are bats. These species have much to tell us about species origins, evolutionary transitions, and ecological partnerships; however, few of them really hold the interest of lay people and cause them to muse, ponder, and deliberate. But lions are completely different. Everyone knows something about lions and most people have been awestruck by their behavior, ecology, and anatomy. In my book, I tried to use public familiarity and intrinsic interest in lions to tell a bigger story: the story of human conquest of nature (and the man-eating episodes that remind us that our dominion is incomplete!) The book also describes the lion's adaptation to different climates and environments, involving variable traits and behaviors, and explains the challenge of conserving biodiversity,

especially the challenge of saving the apex predators which are precariously balanced at the top of the food pyramid. My book is as much a research proposal as it is a summary. In the four years since I wrote it, my collaborators and I have hosted 300 volunteers from 23 nations on six continents who traveled to Kenya to help us study lions in the field. I've never taught in such a well-equipped and fascinating classroom!

*Bruce D. Patterson, PhD, is MacArthur Curator of Mammals, Department of Zoology, The Field Museum. His book may be purchased at The Field Museum's Main Store, or online by visiting <http://store.fieldmuseum.org/index.cfm>*



JOHN WEINSTEIN/NG90396 35D

**PHILIPPINE BIODIVERSITY: PRINCIPLES AND PRACTICE**  
**BY CORAZON CATIBOG-SINHA AND LAWRENCE R. HEANEY**  
 (Haribon Foundation)

The Philippine archipelago is a place of outstanding biological and environmental diversity. Although the country is small, the number of species of animals and plants is remarkably high, especially the number of species unique to the country. However, massive destruction of the original rainforest habitat causes frequent environmental disasters (including flooding, landslides, and drought) and poses a high extinction threat to a large number of species. In my 25 years of conducting biodiversity research and training programs there, I have learned that few Filipinos know of the wonderful biota that their nation possesses and they have had little access to information about the management and policies by which the rainforest can be protected and sustained. My co-author, Cora Sinha, PhD, is the

former director of the Philippine Protected Areas and Wildlife Bureau (she's now at the University of Western Sydney.) Our book is intended to be used by both university students and government employees as a textbook and information source, presented at a level that requires little prior knowledge. It includes 51 pages of color photos that enliven the book and stress the primary message about the amazing biological diversity of the nation. The book was published in the Philippines by the Haribon Foundation, a conservation organization.

*Lawrence R. Heaney, PhD, is curator and head, division of mammals, Department of Zoology, The Field Museum. Orders for his book may be placed through [communication@haribon.org.ph](mailto:communication@haribon.org.ph)*





## PEARLS: A NATURAL HISTORY

BY RÜDIGER BIELER AND BENNET BRONSON

(Harry N. Abrams, Inc. in association with the American Museum of Natural History and The Field Museum)

We wrote *Pearls: A Natural History* with Neil Landman, PhD, and Paula Mikkelsen, PhD, our colleagues and fellow curators from the American Museum of Natural History, with whom we also developed the associated traveling exhibition. We were fascinated with a subject that so neatly combines nature and culture—after all, one of us is a zoologist and the other an anthropologist. After several years of background research that led us to pearl culture sites in Australia, Japan, Tahiti, and China, we expanded the original idea of an exhibition catalog to a fully researched and extensively illustrated general work on pearls, the mollusks that produce them, and the various cultural, economic, and conservation issues that result from their harvest. Many of the book's images stem from our joint travels or explore facets of "perliculture" in historic past or present that piqued our interest. Much to our delight, this combined approach turned out to be popular. The *Pearls* exhibition, which was shown at

The Field Museum in 2002, is still traveling internationally and nearly 30,000 copies of the book have been sold (and hopefully read!)

Rüdiger Bieler, PhD, (pictured left, top) is curator and head, division of invertebrates, Zoology Department, The Field Museum. Bennet Bronson, PhD, (pictured left, bottom) is curator of Asian anthropology, Department of Anthropology, The Field Museum. *Pearls: A Natural History* may be purchased from The Field Museum's Main Store. To order online, visit <http://store.fieldmuseum.org/index.cfm>

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JOHN WEINSTEIN/GN90419\_13D



## COMMON MUSHROOMS OF THE TALAMANCA MOUNTAINS, COSTA RICA

BY ROY E. HALLING AND GREGORY M. MUELLER

(New York Botanical Garden)

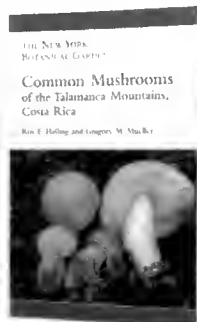
*Common Mushrooms of the Talamanca Mountains, Costa Rica* is based on 10 years of research by my colleague Roy Halling, PhD, of the New York Botanical Garden, and me. While Costa Rica's cloud forests are well known for the diversity of their plants and animals, their mushrooms have been little studied. These incredibly rich forests once covered the Talamanca Mountain Range, which extends south from the center of the country into Panama. Much of the range has been cleared for cattle, coffee, etc., leaving scattered patches of forests teeming with birds, monkeys, orchids, ferns, and fungi. Dr. Halling and I previously contributed to two field guides on Costa Rican mushrooms. These field guides were geared for readers such as ecotourists, tour guides, and park guards.

Our new book bridges the gap between the typical field guide and treatments written just for scientists. We strived to create a book that is fully comprehensible for lay people with easily understandable and descriptive commentaries, beautiful color photographs and identification aids, plus sufficient information to be useful to scientists. This book is intended for anyone interested in the mushrooms of Central America.

Gregory M. Mueller, PhD, is curator, fungi, Department of Botany, The Field Museum. His book may be purchased by calling 718.817.8721 (reference ISBN 0893274607). **ITF**

DIANE ALEXANDER WHITE/GN90820\_74B

ALL BOOKS: DIANE ALEXANDER WHITE



# Natural History Goes to the Movies

By Theresa Scandiffio, Field Museum Library Motion Picture Archive Researcher

"There is no doubt but what the moving picture is a very important means of educating the public, and we are trying to build up a large library of films."

*Correspondence from Stanley Field, president of The Field Museum, to filmmaker George D. Pratt – Sept. 20, 1923.*

You may have read about the extraordinary history behind the creation and construction of The Field Museum—from its beginnings at the Columbian Exposition of 1893, to its move to Grant Park some 85 years ago. But did you know that at the same time the Museum unveiled its current building it also began to produce and collect motion pictures for public programming?

As Stanley Field's statement (above) shows, The Field Museum has long recognized the value of visual media in augmenting educational programs. In the 1920s, thanks to the support of the James Nelson and Anna Louise Raymond Foundation, the Museum launched the Saturday Morning Film Series—a program that screened 16mm films from the Museum's Library. Along with formal lectures, these films educated children of all ages about the Field's collections. The immensely popular series was held in the Museum's James Simpson Theatre and filled a great public demand, with over 20,000 children attending any given program of films.

Field Museum curators and scientists created many series films, but some of the most popular were produced by Museum members such as George D. Pratt, conservationist and amateur filmmaker. Pratt's 1921 film, *Egypt: A Nile Trip on the Dahabiyeh Bedouin*, was a huge success with the Saturday series audience. When Pratt donated his films to The Field Museum in the early 1920s, he laid the foundation

for the Museum's archive of motion pictures. That archive now houses over 300 16mm prints once used for educational purposes, including Field Museum-produced early expedition films and non-Museum-produced titles. Roughly 50 films feature early Field Museum expedition and research from all four academic departments—anthropology, botany, geology, and zoology. The film collection represents the rich history of scientific methodologies and documents discoveries of human cultures, plants, mammals, insects, birds, and fossils, in diverse and changing environments. The films contain highly relevant and valuable images including scenes of archeological sites in Kish, Iraq shot in the 1920s, artist Malvina Hoffman sculpting statues for the 1930's *Races of Mankind* exhibition, and rare views of Tibetan dances.

Until recently, the unknown physical condition of the films prohibited researchers from viewing them. We now know that the films are deteriorating at an alarming rate and the situation is dire. Over the past four years, the Museum has taken the initiative to save this unique legacy. Through the assistance of the National Film Preservation Foundation, the Museum has preserved and digitized five films and made another dozen viewable for research purposes. And, thanks to a joint project launched this year with the Film Studies Center

at the University of Chicago, The Field Museum has preserved and digitized 10 Museum expedition film prints, providing invaluable resources for research projects, future exhibitions, and educational programs. The goal of the U of C project is to preserve all Field Museum-produced films. **ITF**

**'The films contain highly relevant and valuable images...'**

Top of page and above, bottom: In 1967, New Trier High School students participated in an audio visual project at the Museum.

Above, top: This photo from 1930 shows Paul Martin, PhD, Field Museum curator and filmmaker.



THE FIELD MUSEUM/CSA75691



THE FIELD MUSEUM/GN81141\_9



THE FIELD MUSEUM/GN81141\_6

# Helpful Tips for Your Visit to See King Tut

## ENTER AT MUSEUM'S EAST ENTRANCE

If you are an Individual, Family, Senior, Student, National Affiliate, Associate Life, or Life Member; or a Corporate Member Employee and you:

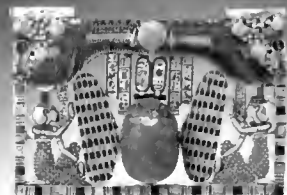
- Already have King Tut tickets
- Need to obtain King Tut tickets
- Need to pick up King Tut tickets in Will Call
- Need other membership services

## ENTER AT MUSEUM'S SOUTH ENTRANCE

If you are a Royal Tut or Tut at Twilight Member; or a member of The Founders' Council, Annual Fund, or Field Associates and you:

- Already have King Tut tickets
- Need to obtain King Tut tickets
- Need to pick up King Tut tickets in Will Call
- Need other membership services

**ALL MEMBERS** should enter the Museum at the **SOUTH** entrance for visits that do **NOT** include viewing the King Tut exhibition.



ANDREAS F. VOEGELIN

## Annual Fund Donor Appreciation Night and Founders' Council Update

Be sure to mark your calendars for the fifth Annual Fund Donor Appreciation event that will take place Wednesday, Sept. 27. You will not want to miss this exclusive opportunity for Annual Fund donors to view *Gregor Mendel: Planting the Seeds of Genetics* (Sept. 15–April 1, 2007). If you have not yet reserved your tickets for *Tutankhamun and the Golden Age of the Pharaohs*, be sure to take advantage of our donor ticket hotline at 312.665.7929. For more information on these events, or for questions concerning The Annual Fund, please call 312.665.7777.

The Founders' Council exclusive preview of *Gregor Mendel: Planting the Seeds of Genetics* will take place on Tuesday, Sept. 12. For more information on The Founders' Council, please contact Erica Lee at 312.665.7773.

We hope you take advantage of your many benefits as Annual Fund and Founders' Council donors and don't forget the *Evolving Planet* exhibition is included with your complimentary general admission. We look forward to seeing you this fall!

## Membership News

Member tickets for *Gregor Mendel: Planting the Seeds of Genetics* are now available for reservation. Family, Royal Tut, and Tut at Twilight members are eligible for four complimentary tickets; Individual, Senior, and National Affiliate members are eligible for two complimentary tickets; Student members are eligible for one complimentary ticket. Capacity for the exhibition is very limited, so securing your complimentary member tickets in advance is strongly recommended. Royal Tut and Tut at Twilight members, please call 312.665.7929 to reserve tickets; Individual, Family, Senior, Student, and National Affiliate members, please call 312.665.7705.

Calling to purchase tickets for *Tutankhamun and the Golden Age of the Pharaohs*? Reserve your *Mendel* tickets at the same time! Our membership call center is open 8:30am–4:30pm, Monday through Friday (312.665.7929). If you are a Tut at Twilight Member and have not already secured your two complimentary tickets to Tut at Twilight, we encourage you to do so now. Join us for Tut at Twilight, Sept. 1–4, Nov. 24, or Dec. 26–29. Call 312.665.7929 to reserve tickets.

Start your holiday shopping now! A Field Museum Membership makes a great holiday gift. Call 312.665.7700 to order your gift membership today!

Above: Tutankhamun's heart scarab lies in the center of this stone and glass pectoral.

Below: This mobile by artist Christine Borland is in the Mendel exhibition. The agate stones represent five generations of a family that had Huntington's disease, an inherited disorder.



© DAVE MORGAN/COURTESY, LISSON GALLERY

## TAKE PUBLIC TRANSPORTATION!

Many buses and rail lines provide access to The Field Museum.

For more information, call **888.YOURCTA** or visit **[www.transitchicago.com](http://www.transitchicago.com)**

Visit **[www.rtachicago.com](http://www.rtachicago.com)** for regional transit information.

**Attention corporate leaders!** The Field Museum's Corporate Relations Program is full of exciting benefits for your employees and clients. It's easy to administer and will enhance your company's existing work/life program. Memberships range from \$5,000 – \$30,000.

**Free, Unlimited General Admission for Employees**

Applies to all of your employees plus one guest per person throughout the year and includes free admission to *Evolving Planet*.

**Discount Tickets to King Tut**

Employees may purchase \$10 tickets\* to Tutankhamun and the Golden Age of the Pharaohs (compared to general public price of \$25).

\*Two ticket maximum per employee, per visit.

**Complimentary Tickets to Tut at Twilight**

Receive up to 20 King Tut exhibition tickets (with audio tours) to *Tut at Twilight*, a series of special after-hour viewing events. The perfect gift to share with clients!



**Complimentary Guest Passes**

Receive up to 150 general admission guest passes per year.

**Corporate Entertaining Discounts and Much More**

Receive significant event discounts for corporate meetings, client events, or employee holiday parties. Customize your event with an exhibition viewing.

Your corporate membership will provide essential unrestricted support allowing The Field Museum to achieve its ongoing scientific and educational goals.

For more information and a list of current members, visit [www.fieldmuseum.org/edonations/c\\_relations](http://www.fieldmuseum.org/edonations/c_relations)

To customize your Corporate Membership, contact Holly S. Morgan at 312.665.7120, or email [hmorgan@fieldmuseum.org](mailto:hmorgan@fieldmuseum.org)

*Corporate donors at a private King Tut event.*

After exploring *Gregor Mendel: Planting the Seeds of Genetics*, be sure to visit our display of Mendel-inspired merchandise located both in the Sue Store adjacent to the exhibition, and the Main Store at the south entrance. Featured items include the companion book written by noted novelist Simon Mawer, as well as our charming children's book, *Gregor Mendel: The Friar Who Grew Peas*. You can also shop online at [www.fieldmuseum.org](http://www.fieldmuseum.org)

*The companion book (left) for the Mendel exhibition is available in the Museum's Sue Store and Main Store.*

**The Field Museum**  
1400 South Lake Shore Drive  
Chicago, IL 60605-2496